

# Basic Programming Concepts

- **Definition:** The process of developing the computer programs is known as C P.
- **Computer program:**
- It is set of instructions which enable particular processes to be performed by the computer. The program used by computer is known as computer software.
- **Computer Programming Language:**
- **Definition:** It is set of symbols, conventions, rules used by the user to communicate with the computer. Computer can only accept the instruction for performing any tasks in a computer programming language.

# Basic Programming

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## **Basic Programming:**

*Coding for Beginners in easy steps* Mike McGrath, 2015-05-19 Coding for Beginners in easy steps has an easy to follow style that will appeal to anyone of any age who wants to begin coding computer programs You need have no previous knowledge of any computer programming language so it s ideal for the newcomer including youngsters needing to learn programming basics for the school curriculum Coding for Beginners in easy steps instructs you how to write code to create your own computer programs It contains separate chapters demonstrating how to store information in data structures how to control program flow using control structures and how to create re usable blocks of code in program functions There are complete step by step example programs that demonstrate each aspect of coding together with screenshots that illustrate the actual output when each program has been executed Coding for Beginners in easy steps begins by explaining how to easily create a programming environment on your own computer so you can quickly begin to create your own working programs by copying the book s examples After demonstrating the essential building blocks of computer programming it describes how to code powerful algorithms and demonstrates how to code classes for Object Oriented Programming OOP The examples throughout this book feature the popular Python programming language but additionally the final chapter demonstrates a comparison example in the C C and Java programming languages to give you a rounded view of computer coding The code in the listed steps within the book is colour coded to precisely match the default colour coding of the Python IDLE editor making it easier for beginners to grasp By the end of this book you will have gained a sound understanding of coding and be able to write your own computer programs that can be run on any compatible computer *BASIC* William F. Sharpe, Nancy L. Jacob, 1979

**PIC BASIC: Programming and Projects** Dogan Ibrahim, 2001-08-29 PIC BASIC is the simplest and quickest way to get up and running designing and building circuits using a microcontroller Dogan Ibrahim s approach is firmly based in practical applications and project work making this a toolkit rather than a programming guide No previous experience with microcontrollers is assumed the PIC family of microcontrollers and in particular the popular reprogrammable 16X84 device are introduced from scratch The BASIC language as used by the most popular PIC compilers is also introduced from square one with a simple code used to illustrate each of the most commonly used instructions The practicalities of programming and the scope of using a PIC are then explored through 22 wide ranging electronics projects The simplest quickest way to get up and running with microcontrollers Makes the PIC accessible to students and enthusiasts Project work is at the heart of the book this is not a BASIC primer *Basic Programming* John G. Kemeny, Thomas E. Kurtz, 1980 Structured BASIC Programming John G. Kemeny, Thomas E. Kurtz, 1987-03-27 An introduction to computer programming via well structured BASIC Assuming no prior knowledge of BASIC this book presents the fundamentals of programming then shows through examples and problems how algorithmic processes from many fields can be transcribed into computer programs Emphasis is on use of subroutines and on collections of external subroutines

called libraries as well as on use of top down design Section on programming techniques includes advice on how to design code test and debug large programs Contains varied applications text mathematical business games graphics and music

*R028: PETCAL: A BASIC language computer program for petrologic calculations ,      Beginning Programming For Dummies* Wallace Wang,2011-02-25 Do you think the programmers who work at your office are magical wizards who hold special powers that manipulate your computer Believe it or not anyone can learn how to write programs and it doesn't take a higher math and science education to start Beginning Programming for Dummies shows you how computer programming works without all the technical details or hard programming language It explores the common parts of every computer programming language and how to write for multiple platforms like Windows Mac OS X or Linux This easily accessible guide provides you with the tools you need to Create programs and divide them into subprograms Develop variables and use constants Manipulate strings and convert them into numbers Use an array as storage space Reuse and rewrite code Isolate data Create a user interface Write programs for the Internet Utilize JavaScript and Java Applets In addition to these essential building blocks this guide features a companion CD ROM containing Liberty BASIC compiler and code in several languages It also provides valuable programming resources and lets you in on cool careers for programmers With Beginning

Programming of Dummies you can take charge of your computer and begin programming today      Learn to Program with Small Basic Majed Marji,Ed Price,2016-04-16 Small Basic is a free beginner friendly programming language created by Microsoft Inspired by BASIC which introduced programming to millions of first time PC owners in the 1970s and 1980s Small Basic is a modern language that makes coding simple and fun Learn to Program with Small Basic introduces you to the empowering world of programming You'll master the basics with simple activities like displaying messages and drawing colorful pictures and then work your way up to programming games Learn how to Program your computer to greet you by name Make a game of rock paper scissors using If Else statements Create an interactive treasure map using arrays Draw intricate geometric patterns with just a few lines of code Simplify complex programs by breaking them into bite sized subroutines You'll also learn to command a turtle to draw shapes create magical moving text solve math problems quickly help a knight slay a dragon and more Each chapter ends with creative coding challenges so you can take your skills to the next level Learn to Program with Small Basic is the perfect place to start your computer science journey      **BASIC**

**Programming for Chemists** Peter C. Jurs,Thomas L. Isenhour,Charles L. Wilkins,1987-10-02 Teaches the fundamentals of the BASIC programming language by description and example and presents over 50 chemically oriented BASIC programs that can both teach about the language and be useful in their own right The first part of the book introduces the reader to programming in the BASIC language The second part of the book consists of 52 example problems divided into 44 topics concerning chemical problems These problems progress in difficulty in terms of the chemical concepts mathematical models and programming operations involved The reader can work the problems then copy and run the programs and compare the

results The given programs can be modified to suit the reader's needs or new ones be written using the techniques presented in the text

*Computer Programming for Seniors Using Visual Basic 2010 Express* John Smiley, 2011-01-01 An Introductory text on Visual Basic aimed at Senior Citizens using the freely downloadable Visual Basic 2010 Express Edition The easiest technical book you'll ever read Open it up and see for yourself Join Professor Smiley's Visual Basic Net class as he teaches essential skills in programming coding and more Using a student instructor conversational format this book starts at the very beginning with crucial programming fundamentals You'll quickly learn how to identify customer needs so you can create an application that achieves programming objectives just like experienced programmers By identifying clear client goals you'll learn important programming basics like how computers view input and execute output based on the information they are given then use those skills to develop real world applications Participate in this one of a kind classroom experience and see why Professor Smiley is renowned for making learning fun and easy

*Access Database for Pragmatic Programmers: A Step by Step Guide to Create Database-Driven Application Using Python* Vivian Siahaan, 2019-10-11 This book covers microsoft access based GUI programming using pyqt Intentionally designed for various levels of interest and ability of learners this book is suitable for students engineers and even researchers in a variety of disciplines No advanced programming experience is needed and only a few school level programming skill are needed In the first chapter you will learn to use several widgets in PyQt5 Display a welcome message Use the Radio Button widget Grouping radio buttons Displays options in the form of a check box and Display two groups of check boxes In chapter two you will learn to use the following topics Using Signal Slot Editor Copy and place text from one Line Edit widget to another Convert data types and make a simple calculator Use the Spin Box widget Use scrollbars and sliders Using the Widget List Select a number of list items from one Widget List and display them on another Widget List widget Add items to the Widget List Perform operations on the Widget List Use the Combo Box widget Displays data selected by the user from the Calendar Widget Creating a hotel reservation application and Display tabular data using Table Widgets In third chapter you will learn How to create the initial three tables project in the School database Teacher Class and Subject tables How to create database configuration files How to create a Python GUI for inserting and editing tables How to create a Python GUI to join and query the three tables In fourth chapter you will learn how to Create a main form to connect all forms Create a project will add three more tables to the school database Student Parent and Tuition tables Create a Python GUI for inserting and editing tables Create a Python GUI to join and query over the three tables In the last chapter you will join the six classes Teacher TClass Subject Student Parent and Tuition and make queries over those tables

*Designing and Programming CICS Applications* John Horswill, Members of the CICS Development Team at IBM Hursley, 2000-07-31 CICS is an application server that delivers industrial strength online transaction management for critical enterprise applications Proven in the market for over 30 years with many of the world's leading businesses CICS enables today's customers to modernize and extend their applications to take advantage of the

opportunities provided by e business while maximizing the benefits of their existing investments Designing and Programming CICS Applications will benefit a diverse audience It introduces new users of IBM s mainframe OS 390 to CICS features It shows experienced users how to integrate existing mainframe systems with newer technologies including the Web CORBA Java CICS clients and Visual Basic as well as how to link MQSeries and CICS Each part of Designing and Programming CICS Applications addresses the design requirements for specific components and gives a step by step approach to developing a simple application The book reviews the basic concepts of a business application and the way CICS meets these requirements It then covers a wide range of application development technologies including VisualAge for Java WebSphere Studio and Visual Basic Users learn not only how to design and write their programs but also how to deploy their applications Designing and Programming CICS Applications shows how to Develop and modify existing COBOL applications Become familiar with the CICS Java environment and write a simple Java wrapper for a COBOL application Develop a web front end using servlets JSP and JavaBeans Link the web front end to an existing COBOL application using CORBA Write a Visual Basic application to develop a customer GUI Link an existing COBOL application using a CICS Client ECI call Develop a Java application using Swing as an MQSeries Client Use the MQSeries CICS bridge to access an existing COBOL application Whether for working with thousands of terminals or for a client server environment with workstations and LANs exploiting modern technology such as graphical interfaces or multimedia Designing and Programming CICS Applications delivers the power to create modernize and extend CICS applications

**Beginning Programming in 24 Hours, Sams Teach Yourself** Greg Perry, Dean Miller, 2013-12-02 If you want to learn computer programming but don t know which language to start with this is the book for you In just 24 lessons of one hour or less any beginner can get a solid introduction to the basics of computer programming and learn to write simple programs for any platform Windows Mac and mobile Using a straightforward step by step approach each lesson in this carefully crafted tutorial builds upon the previous one allowing you to learn all the essentials of programming from the ground up Once you ve mastered these fundamentals the book introduces you to several of the most popular computer programming languages today and helps you decide which language to learn first Step by step instructions carefully walk you through the most common programming tasks Practical hands on examples show you how to apply what you learn to create your own programs Quizzes and exercises at the end of each lesson help you test your knowledge and stretch your skills Learn how to Set up your programming toolkit with widely available free downloads Create simple programs in JavaScript that get user input and display output Process numbers and words Use variables to hold information Merge strings together Tell programs how to make decisions Create algorithms to count data values and accumulate totals Use JavaScript to create interactive web pages Improve a user s experience with cookies Debug your programs before going live Structure programs for readability Apply your programming skills to more advanced languages like Java Use object oriented programming techniques Choose between other popular languages like C and C++ HTML5 and

CSS3 Visual Basic and NET and PHP Distribute and sell your programs      *C++ for VB Programmers* Jonathan Morrison, 2008-01-01 Knowing how and when to work in C is the key to building better more efficient Windows applications This book teaches you how to use C to enhance your Visual Basic application without rewriting them from the ground up In this book you will learn to write DLLs that use the performance and capabilities of C which provide access to APIs not easily supported by VB Using C and the ATL Active Template Library you can even write ActiveX components that don't require a huge runtime library Writing from the perspective of an advanced VB programmer and using his own learning process as the framework author Jonathan Morrison teaches you how to harness the development power of C Beginning with an overview of the ways in which C complements VB he moves on to cover the VC development environment that most VB programmers will turn to first Visual Studio exploring a wealth of topics including the differences between VB and C compilers the C preprocessor and the process of memory management in C In the second half of the book Morrison discusses the basics of the C language including data and variables operators loops and control statements He then covers pointers classes and templates The book also contains comprehensive coverage of VB and C DLLs how to use C DLLs with VB programs the ATL and COM objects      *Teaching and Learning Computer Programming* Richard E. Mayer, 2013-12-16 The influx of computer technology into classrooms during the past decade raises the questions how can we teach children to use computers productively and what effect will learning to program computers have on them During this same period researchers have investigated novice learning of computer programming Teaching and Learning Computer Programming unites papers and perspectives by respected researchers of teaching and learning computer science while it summarizes and integrates major theoretical and empirical contributions It gives a current and concise account of how instructional techniques affect student learning and how learning of programming affects students cognitive skills This collection is an ideal supplementary text for students and a valuable reference for professionals and researchers of education technology and psychology computer science communication developmental psychology and industrial organization      **Computer Programming for Absolute Beginners** Joakim Wassberg, 2020-07-31 Get to grips with the building blocks of programming languages and get started on your programming journey without a computer science degree Key Features Understand the fundamentals of a computer program and apply the concepts you learn to different programming languages Gain the confidence to write your first computer program Explore tips techniques and best practices to start coding like a professional programmer Book Description Learning how to code has many advantages and gaining the right programming skills can have a massive impact on what you can do with your current skill set and the way you advance in your career This book will be your guide to learning computer programming easily helping you overcome the difficulties in understanding the major constructs in any mainstream programming language Computer Programming for Absolute Beginners starts by taking you through the building blocks of any programming language with thorough explanations and relevant examples in pseudocode You'll understand the

relationship between computer programs and programming languages and how code is executed on the computer The book then focuses on the different types of applications that you can create with your programming knowledge You ll delve into programming constructs learning all about statements operators variables and data types As you advance you ll see how to control the flow of your programs using control structures and reuse your code using functions Finally you ll explore best practices that will help you write code like a pro By the end of this book you ll be prepared to learn any programming language and take control of your career by adding coding to your skill set What you will learn Get to grips with basic programming language concepts such as variables loops selection and functions Understand what a program is and how the computer executes it Explore different programming languages and learn about the relationship between source code and executable code Solve problems using various paradigms such as procedural programming object oriented programming and functional programming Write high quality code using several coding conventions and best practices Become well versed with how to track and fix bugs in your programs Who this book is for This book is for beginners who have never programmed before and are looking to enter the world of programming This includes anyone who is about to start studying programming and wants a head start or simply wants to learn how to program on their own

#### **FOUR PROJECTS: PREDICTION AND FORECASTING USING MACHINE LEARNING WITH PYTHON** Vivian Siahaan, Rismon Hasiholan Sianipar, 2022-05-25

**PROJECT 1 GOLD PRICE ANALYSIS AND FORECASTING USING MACHINE LEARNING WITH PYTHON** The challenge of this project is to accurately predict the future adjusted closing price of Gold ETF across a given period of time in the future The problem is a regression problem because the output value which is the adjusted closing price in this project is continuous value Data for this study is collected from November 18th 2011 to January 1st 2019 from various sources The data has 1718 rows in total and 80 columns in total Data for attributes such as Oil Price Standard and Poor s S Blast Furnace Slag component 2 Fly Ash component 3 Water component 4 Superplasticizer component 5 Coarse Aggregate Fine Aggregate component 7 Age and Concrete compressive strength To perform regression on concrete compressive strength you will use Linear Regression Random Forest regression Decision Tree regression Support Vector Machine regression Na ve Bayes regression K Nearest Neighbor regression Adaboost regression Gradient Boosting regression Extreme Gradient Boosting regression Light Gradient Boosting regression Catboost regression and MLP regression To perform clustering you will use K Means algorithm The machine learning models used predict clusters as target variable are K Nearest Neighbor classifier Random Forest classifier Naive Bayes classifier Logistic Regression classifier Decision Tree classifier Support Vector Machine classifier LGBM classifier Gradient Boosting classifier XGB classifier and MLP classifier Finally you will plot boundary decision distribution of features feature importance cross validation score and predicted values versus true values confusion matrix learning curve performance of the model scalability of the model training loss and training accuracy

**PROJECT 4 DATA SCIENCE FOR SALES ANALYSIS FORECASTING CLUSTERING AND PREDICTION WITH PYTHON** The



dataset used in this project is from Walmart which is a renowned retail corporation that operates a chain of hypermarkets Walmart has provided a data combining of 45 stores including store information and monthly sales The data is provided on weekly basis Walmart tries to find the impact of holidays on the sales of store For which it has included four holidays weeks into the dataset which are Christmas Thanksgiving Super bowl Labor Day In this project you are going to analyze forecast weekly sales perform clustering and predict the resulting clusters The dataset covers sales from 2010 02 05 to 2012 11 01 Following are the attributes in the dataset Store the store number Date the week of sales Weekly\_Sales sales for the given store Holiday\_Flag whether the week is a special holiday week 1 Holiday week 0 Non holiday week Temperature Temperature on the day of sale Fuel\_Price Cost of fuel in the region CPI Prevailing consumer price index and Unemployment Prevailing unemployment rate To perform regression on weekly sales you will use Linear Regression Random Forest regression Decision Tree regression Support Vector Machine regression Na ve Bayes regression K Nearest Neighbor regression Adaboost regression Gradient Boosting regression Extreme Gradient Boosting regression Light Gradient Boosting regression Catboost regression and MLP regression To perform clustering you will use K Means algorithm The machine learning models used predict clusters as target variable are K Nearest Neighbor classifier Random Forest classifier Naive Bayes classifier Logistic Regression classifier Decision Tree classifier Support Vector Machine classifier LGBM classifier Gradient Boosting classifier XGB classifier and MLP classifier Finally you will plot boundary decision distribution of features feature importance cross validation score and predicted values versus true values confusion matrix learning curve performance of the model scalability of the model training loss and training accuracy

*Data Science and Deep Learning Workshop For Scientists and Engineers* Vivian Siahaan, Rismon Hasiholan Sianipar, 2021-11-04 WORKSHOP 1 In this workshop you will learn how to use TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries to implement deep learning on recognizing traffic signs using GTSRB dataset detecting brain tumor using Brain Image MRI dataset classifying gender and recognizing facial expression using FER2013 dataset In Chapter 1 you will learn to create GUI applications to display line graph using PyQt You will also learn how to display image and its histogram In Chapter 2 you will learn how to use TensorFlow Keras Scikit Learn Pandas NumPy and other libraries to perform prediction on handwritten digits using MNIST dataset with PyQt You will build a GUI application for this purpose In Chapter 3 you will learn how to perform recognizing traffic signs using GTSRB dataset from Kaggle There are several different types of traffic signs like speed limits no entry traffic signals turn left or right children crossing no passing of heavy vehicles etc Traffic signs classification is the process of identifying which class a traffic sign belongs to In this Python project you will build a deep neural network model that can classify traffic signs in image into different categories With this model you will be able to read and understand traffic signs which are a very important task for all autonomous vehicles You will build a GUI application for this purpose In Chapter 4 you will learn how to perform detecting brain tumor using Brain Image MRI dataset provided by

Kaggle <https://www.kaggle.com/navoneel/brain-mri-images-for-brain-tumor-detection> using CNN model You will build a GUI application for this purpose In Chapter 5 you will learn how to perform classifying gender using dataset provided by Kaggle <https://www.kaggle.com/cashutosh/gender-classification-dataset> using MobileNetV2 and CNN models You will build a GUI application for this purpose In Chapter 6 you will learn how to perform recognizing facial expression using FER2013 dataset provided by Kaggle <https://www.kaggle.com/nicolejyt/facialexpressionrecognition> using CNN model You will also build a GUI application for this purpose

WORKSHOP 2 In this workshop you will learn how to use TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries to implement deep learning on classifying fruits classifying cats dogs detecting furnitures and classifying fashion In Chapter 1 you will learn to create GUI applications to display line graph using PyQt You will also learn how to display image and its histogram Then you will learn how to use OpenCV NumPy and other libraries to perform feature extraction with Python GUI PyQt The feature detection techniques used in this chapter are Harris Corner Detection Shi Tomasi Corner Detector and Scale Invariant Feature Transform SIFT In Chapter 2 you will learn how to use TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries to perform classifying fruits using Fruits 360 dataset provided by Kaggle <https://www.kaggle.com/moltean/fruits> code using Transfer Learning and CNN models You will build a GUI application for this purpose In Chapter 3 you will learn how to use TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries to perform classifying cats dogs using dataset provided by Kaggle <https://www.kaggle.com/chetankv/dogs-cats-images> using Using CNN with Data Generator You will build a GUI application for this purpose In Chapter 4 you will learn how to use TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries to perform detecting furnitures using Furniture Detector dataset provided by Kaggle <https://www.kaggle.com/akkithetechie/furniture-detector> using VGG16 model You will build a GUI application for this purpose In Chapter 5 you will learn how to use TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries to perform classifying fashion using Fashion MNIST dataset provided by Kaggle <https://www.kaggle.com/zalando-research/fashionmnist> code using CNN model You will build a GUI application for this purpose

WORKSHOP 3 In this workshop you will implement deep learning on detecting vehicle license plates recognizing sign language and detecting surface crack using TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries In Chapter 1 you will learn how to use TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries to perform detecting vehicle license plates using Car License Plate Detection dataset provided by Kaggle <https://www.kaggle.com/andrewmvd/car-plate-detection> download In Chapter 2 you will learn how to use TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries to perform sign language recognition using Sign Language Digits Dataset provided by Kaggle <https://www.kaggle.com/ardamavi/sign-language-digits-dataset> download In Chapter 3 you will learn how to use TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries to perform detecting surface crack using Surface Crack Detection provided by Kaggle <https://www.kaggle.com/arunrk7/surface-crack-detection> download

WORKSHOP 4 In this

workshop implement deep learning based image classification on detecting face mask classifying weather and recognizing flower using TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries In Chapter 1 you will learn how to use TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries to perform detecting face mask using Face Mask Detection Dataset provided by Kaggle <https://www.kaggle.com/omkargurav/face-mask-dataset-download> In Chapter 2 you will learn how to use TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries to perform how to classify weather using Multi class Weather Dataset provided by Kaggle <https://www.kaggle.com/pratik2901/multiclass-weather-dataset-download> WORKSHOP 5 In this workshop implement deep learning based image classification on classifying monkey species recognizing rock paper and scissor and classify airplane car and ship using TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries In Chapter 1 you will learn how to use TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries to perform how to classify monkey species using 10 Monkey Species dataset provided by Kaggle <https://www.kaggle.com/slothkong/10-monkey-species-download> In Chapter 2 you will learn how to use TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries to perform how to recognize rock paper and scissor using 10 Monkey Species dataset provided by Kaggle <https://www.kaggle.com/sanikamal/rock-paper-scissors-dataset-download> WORKSHOP 6 In this workshop you will implement two data science projects using Scikit Learn Scipy and other libraries with Python GUI In Chapter 1 you will learn how to use Scikit Learn Scipy and other libraries to perform how to predict traffic number of vehicles in four different junctions using Traffic Prediction Dataset provided by Kaggle <https://www.kaggle.com/fedesoriano/traffic-prediction-dataset-download> This dataset contains 48 1k 48120 observations of the number of vehicles each hour in four different junctions 1 DateTime 2 Junction 3 Vehicles and 4 ID In Chapter 2 you will learn how to use Scikit Learn NumPy Pandas and other libraries to perform how to analyze and predict heart attack using Heart Attack Analysis protein\_seq parent protein sequence start\_position start position of peptide end\_position end position of peptide peptide\_seq peptide sequence chou\_fasman peptide feature emini peptide feature relative surface accessibility kolaskar\_tongaonkar peptide feature antigenicity parker peptide feature hydrophobicity isoelectric\_point protein feature aromaticity protein feature hydrophobicity protein feature stability protein feature and target antibody valence target value The machine learning models used in this project are K Nearest Neighbor Random Forest Naive Bayes Logistic Regression Decision Tree Support Vector Machine Adaboost Gradient Boosting XGB classifier and MLP classifier Then you will learn how to use sequential CNN and VGG16 models to detect and predict Covid 19 X RAY using COVID 19 Xray Dataset Train gender Male Female or Other age age of the patient hypertension 0 if the patient doesn't have hypertension 1 if the patient has hypertension heart\_disease 0 if the patient doesn't have any heart diseases 1 if the patient has a heart disease ever\_married No or Yes work\_type children Govt\_jov Never\_worked Private or Self employed Residence\_type Rural or Urban avg\_glucose\_level average glucose level in blood bmi body mass index smoking\_status formerly smoked never smoked smokes or Unknown and stroke 1 if the patient

had a stroke or 0 if not The models used in this project are K Nearest Neighbor Random Forest Naive Bayes Logistic Regression Decision Tree Support Vector Machine Adaboost LGBM classifier Gradient Boosting XGB classifier MLP classifier and CNN 1D Finally you will develop a GUI using PyQt5 to plot boundary decision ROC distribution of features feature importance cross validation score and predicted values versus true values confusion matrix learning curve performance of the model scalability of the model training loss and training accuracy

**WORKSHOP 11** In this workshop you will learn how to use Scikit Learn Keras TensorFlow NumPy Pandas Seaborn and other libraries to perform classifying and predicting Hepatitis C using dataset provided by UCI Machine Learning Repository All attributes in dataset except Category and Sex are numerical Attributes 1 to 4 refer to the data of the patient X Patient ID No Category diagnosis values 0 Blood Donor 0s suspect Blood Donor 1 Hepatitis 2 Fibrosis 3 Cirrhosis Age in years Sex f m ALB ALP ALT AST BIL CHE CHOL CREA GGT and PROT The target attribute for classification is Category 2 blood donors vs Hepatitis C patients including its progress just Hepatitis C Fibrosis Cirrhosis The models used in this project are K Nearest Neighbor Random Forest Naive Bayes Logistic Regression Decision Tree Support Vector Machine Adaboost LGBM classifier Gradient Boosting XGB classifier MLP classifier and ANN 1D Finally you will develop a GUI using PyQt5 to plot boundary decision ROC distribution of features feature importance cross validation score and predicted values versus true values confusion matrix learning curve performance of the model scalability of the model training loss and training accuracy

*FULL SOURCE CODE: PRACTICAL DATA SCIENCE WITH MYSQL AND PYTHON GUI* Vivian Siahaan, Rismon Hasiholan Sianipar, 2022-08-06 In this project we provide you with the MySQL version of SQLite sample database named chinook The chinook sample database is a good database for practicing with SQL especially SQLite The detailed description of the database can be found on <https://www.sqlitetutorial.net/sqlite-sample-database/> There are 11 tables in the chinook sample database The employee table stores employees data such as employee id last name first name etc It also has a field named ReportsTo to specify who reports to whom customers table stores customers data invoices The artist table stores artists data It is a simple table that contains only the artist id and name The album table stores data about a list of tracks Each album belongs to one artist However one artist may have multiple albums The media\_type table stores media types such as MPEG audio and AAC audio files genre table stores music types such as rock jazz metal etc The track table stores the data of songs Each track belongs to one album playlist the distribution of amount by year quarter month week day and hour the bottom top 10 sales by employee the bottom top 10 sales by customer the bottom top 10 sales by customer the bottom top 10 sales by artist the bottom top 10 sales by genre the bottom top 10 sales by play list the bottom top 10 sales by customer city the bottom top 10 sales by customer city the bottom top 10 sales by customer city the payment amount by month with mean and EWM the average payment amount by every month and amount payment in all years

**DATA SCIENCE WITH MYSQL, SQLITE, POSTGRESQL, AND SQL SERVER USING PYTHON GUI** Vivian Siahaan, Rismon Hasiholan Sianipar, 2022-10-03 Book 1 MYSQL AND DATA SCIENCE QUERIES AND

**VISUALIZATION WITH PYTHON GUI** In this project you will write Python script to create every table and insert rows of data into each of them You will develop GUI with PyQt5 to each table in the database You will also create GUI to plot case distribution of film release year film rating rental duration and categorize film length plot rating variable against rental\_duration variable in stacked bar plots plot length variable against rental\_duration variable in stacked bar plots read payment table plot case distribution of Year Day Month Week and Quarter of payment plot which year month week days of week and quarter have most payment amount read film list by joining five tables category film\_category film\_actor film and actor plot case distribution of top 10 and bottom 10 actors plot which film title have least and most sales plot which actor have least and most sales plot which film category have least and most sales plot case distribution of top 10 and bottom 10 overdue costumers plot which customer have least and most overdue days plot which store have most sales plot average payment amount by month with mean and EWM and plot payment amount over June 2005 This project uses the Sakila sample database which is a fictitious database designed to represent a DVD rental store The tables of the database include film film\_category actor film\_actor customer rental payment and inventory among others You can download the MySQL from <https://dev.mysql.com/doc/sakila/en> Book 2 SQLITE FOR DATA ANALYST AND DATA SCIENTIST WITH PYTHON GUI In this project we will use the SQLite version of BikeStores database as a sample database to help you work with MySQL quickly and effectively The stores table includes the store s information Each store has a store name contact information such as phone and email and an address including street city state and zip code The staffs table stores the essential information of staffs including first name last name It also contains the communication information such as email and phone A staff works at a store specified by the value in the store\_id column A store can have one or more staffs A staff reports to a store manager specified by the value in the manager\_id column If the value in the manager\_id is null then the staff is the top manager If a staff no longer works for any stores the value in the active column is set to zero The categories table stores the bike s categories such as children bicycles comfort bicycles and electric bikes The products table stores the product s information such as name brand category model year and list price Each product belongs to a brand specified by the brand\_id column Hence a brand may have zero or many products Each product also belongs a category specified by the category\_id column Also each category may have zero or many products The customers table stores customer s information including first name last name phone email street city state zip code and photo path The orders table stores the sales order s header information including customer order status order date required date shipped date It also stores the information on where the sales transaction was created store and who created it staff Each sales order has a row in the sales\_orders table A sales order has one or many line items stored in the order\_items table The order\_items table stores the line items of a sales order Each line item belongs to a sales order specified by the order\_id column A sales order line item includes product order quantity list price and discount The stocks table stores the inventory information i e the quantity of a particular product in a specific store

Book 3 ZERO TO MASTERY THE COMPLETE GUIDE TO LEARNING POSTGRES SQL WITH PYTHON GUI This book uses the PostgreSQL version of MySQL based Northwind database The Northwind database is a sample database that was originally created by Microsoft and used as the basis for their tutorials in a variety of database products for decades The Northwind database contains the sales data for a fictitious company called Northwind Traders which imports and exports specialty foods from around the world The Northwind database is an excellent tutorial schema for a small business ERP with customers orders inventory purchasing suppliers shipping employees and single entry accounting The Northwind database has since been ported to a variety of non Microsoft databases including PostgreSQL The Northwind dataset includes sample data for the following Suppliers Suppliers and vendors of Northwind Customers Customers who buy products from Northwind Employees Employee details of Northwind traders Products Product information Shippers The details of the shippers who ship the products from the traders to the end customers and Orders and Order\_Details Sales Order transactions taking place between the customers the distribution of amount by year quarter month week day and hour the distribution of bottom 10 sales by product top 10 sales by product bottom 10 sales by customer top 10 sales by customer bottom 10 sales by supplier top 10 sales by supplier bottom 10 sales by customer country top 10 sales by customer country bottom 10 sales by supplier country top 10 sales by supplier country average amount by month with mean and ewm average amount by every month amount feature over June 1997 amount feature over 1998 and all amount feature Book 4 ZERO TO MASTERY THE COMPLETE GUIDE TO LEARNING SQL SERVER AND DATA SCIENCE WITH PYTHON GUI In this project we provide you with a SQL SERVER version of an Oracle sample database named OT which is based on a global fictitious company that sells computer hardware including storage motherboard RAM video card and CPU The company maintains the product information such as name description standard cost list price and product line It also tracks the inventory information for all products including warehouses where products are available Because the company operates globally it has warehouses in various locations around the world The company records all customer information including name address and website Each customer has at least one contact person with detailed information including name email and phone The company also places a credit limit on each customer to limit the amount that customer can owe Whenever a customer issues a purchase order a sales order is created in the database with the pending status When the company ships the order the order status becomes shipped In case the customer cancels an order the order status becomes canceled In addition to the sales information the employee data is recorded with some basic information such as name email phone job title manager and hire date In this project you will write Python script to create every table and insert rows of data into each of them You will develop GUI with PyQt5 to each table in the database You will also create GUI to plot case distribution of order date by year quarter month week and day the distribution of amount by year quarter month week day and hour the distribution of bottom 10 sales by product top 10 sales by product bottom 10 sales by customer top 10 sales by customer bottom 10 sales by category top 10

sales by category bottom 10 sales by status top 10 sales by status bottom 10 sales by customer city top 10 sales by customer city bottom 10 sales by customer state top 10 sales by customer state average amount by month with mean and EWM average amount by every month amount feature over June 2016 amount feature over 2017 and amount payment in all years

Basic Programming: Bestsellers in 2023 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the fascinating narratives that have enthralled audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Basic Programming : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and gripping novel that will keep you speculating until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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