Raj Cloud Technologies

Online Job-Based Software Training Institute

Python Training Program

Introduction

About Trainer

About Raj Cloud Technologies

Courses offered

Python Basics

[Beginner Program]

- ✓*Core Python*
- ✓*Database Basics*
- ✓*Git & GitHub*
- ✓*Flask REST API*
- ✓*Capstone Projects*

Course Fee

Registration Fee: 5000 Rs
Total Fee: 10000 Rs

Course Schedule

Duration: 1 Month / 40+ Hours
Time: 7 PM – 9 PM IST (Mon-Fri)

Python Advance

[Full-Stack Developer Program]

- ✓*Core Python*
- ✓*Flask REST API*
- ✓*HTML | CSS | JavaScript | BootStrap*
- ✓*Django*
- ✓*Database Basics*
- ✓*Git & GitHub*
- ✓*Unit Testing*
- ✓*Familiar with Linux*
- ✓*Capstone Projects*
- ✓*Interview Preparation & Job Assistance*

Course Fee

Registration Fee: 10000 Rs
Total Fee: 20000 Rs

Course Schedule

Duration: 2 Months / 80+ Hours
Time: 7 PM – 9 PM IST (Mon-Fri)

Python Expert

[Certified Developer Program]

- ✓*Core Python*
- ✓*Flask REST API*
- ✓*HTML | CSS | JavaScript | BootStrap*
- ✓*Django*
- ✓*Database Basics*
- ✓*Git & GitHub*
- ✓*Unit Testing*
- ✓*Familiar with Linux*
- ✓*Web Scraping*
- ✓*Data Structures & Algorithms*
- ✓*Data Science, ML/AI Basics*
- ✓*Capstone Projects*
- ✓*Interview Preparation & Job Assistance*

Course Fee

Registration Fee: 10000 Rs
Total Fee: 25000 Rs

Course Schedule

Duration: 3 Months / 120+ Hours
Time: 7 PM – 9 PM IST (Mon-Fri)

Courses offered

Python for ETL

[ETL Developer Program]

- ✓*Core Python*
- ✓*Data Science & Visualization Libraries*
- ✓*Apache Airflow*
- ✓*PySpark*
- ✓*Bonobo*
- ✓*mETL*
- ✓*Capstone Projects*
- ✓*Interview Preparation & Job Assistance*

Course Fee

Registration Fee: 10000 Rs

Total Fee: 15000 Rs

Course Schedule

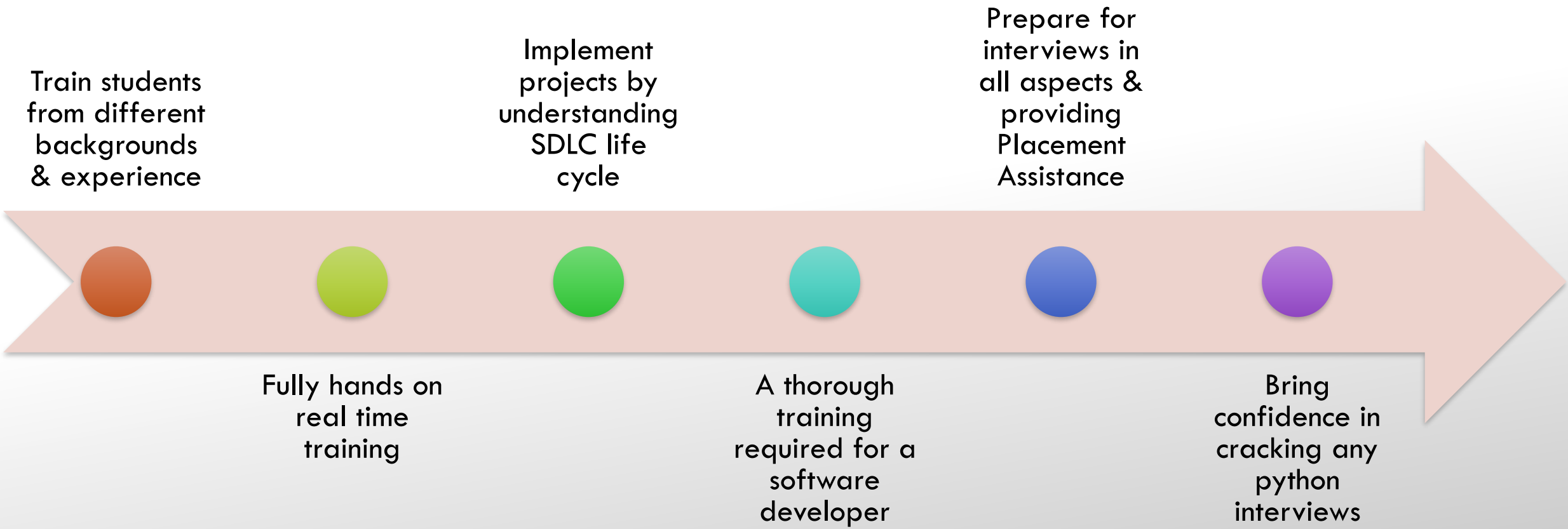
Duration: 1.5 Months / 60+ Hours

Time: 7 PM – 9 PM IST (Mon-Fri)

***Note:** Its separate batch for ETL related*

Libraries | Tools | Software's Covered

Agenda of the course



How Course is organized

1/ 2 / 3 months (based on course choice)

7 PM – 9 PM IST Mon-Fri

For every student material access & meeting schedules will be given through website https://rajinformatica.Com/

First 1 week alternate days and later on all the weekdays

Internal groups for assignments, projects implementation & interview preparation

Separate sessions for Doubts / Assignments / projects

2 WhatsApp groups for practice (10 AM -1 PM/ 2 PM – 5 PM)

1 WhatsApp group for course communication

Course Launch

DATE: **MAY 3RD 2024**

TIMING: 7 PM – 9 PM IST

For Queries

PHONE / WHATSAPP: +91 98804 90148

MAIL: info.rajcloudtech@gmail.com

MORE DETAILS: Python Development Training – Details - Raj Cloud Technologies

Course Enrollment

ENROLL: Enroll - Python Development Training - Raj Cloud Technologies

What is Python

- An interpreted, object oriented, high level programing language created by Guido Van Rossum at the national research institute for mathematics and computer science in the Netherlands and released the first version in 1991.
- Python supports developing various types of applications
- Version history

    Python 1.0 *released in* 1994

    Python 1.5 released in 1997

    Python 2.0 released in 2000

    Python 3.0 released in in 2008

    Python 3.12 released in 2023

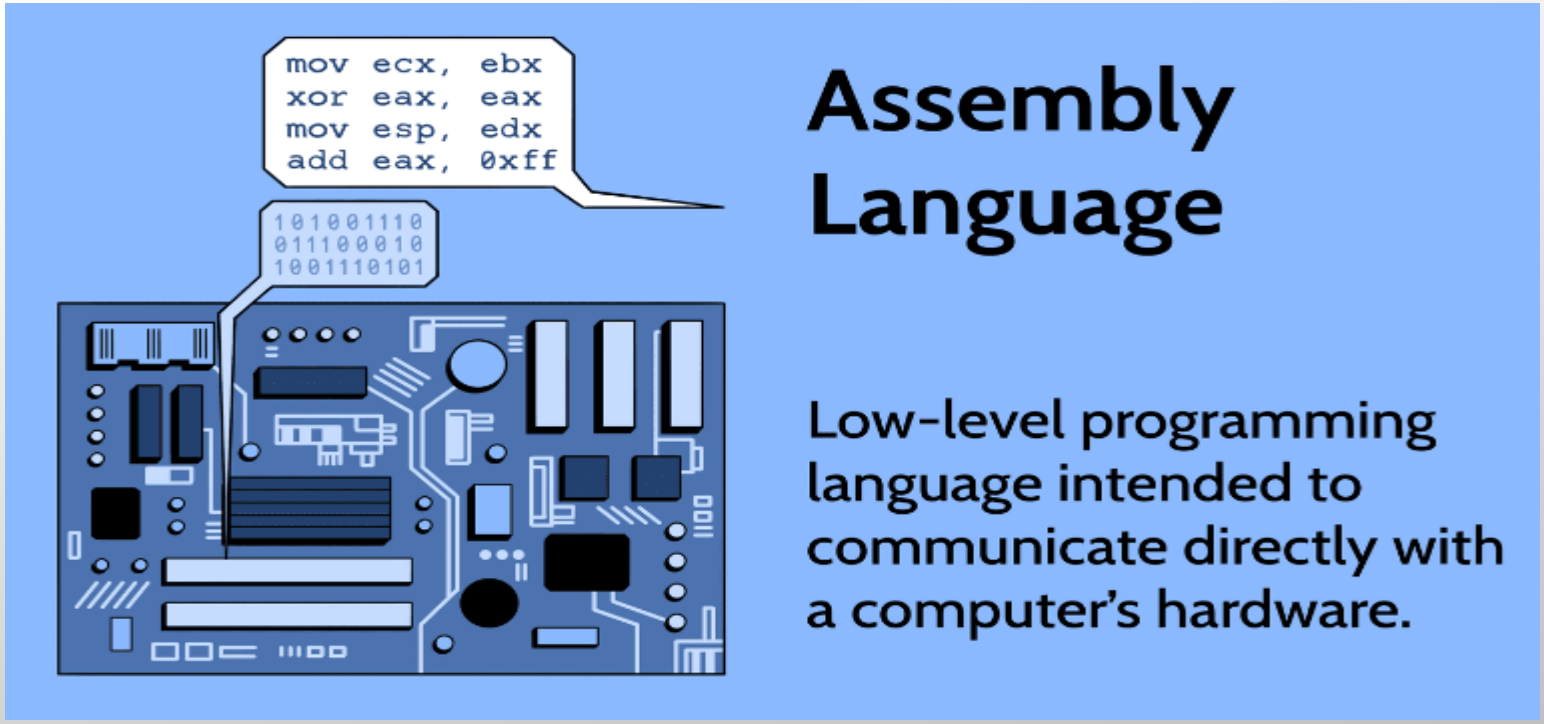
Some Basics

- **Low level language:** A programing language which is close to computer hardware, also called computer's native language.

  Examples: machine language, assembly language

  Used for: operating system development, device drivers, embedded systems

Note: low level language varies machine to machine depends on hardware /processors. It's quick as instructions will be in native language but its not in user readable format.

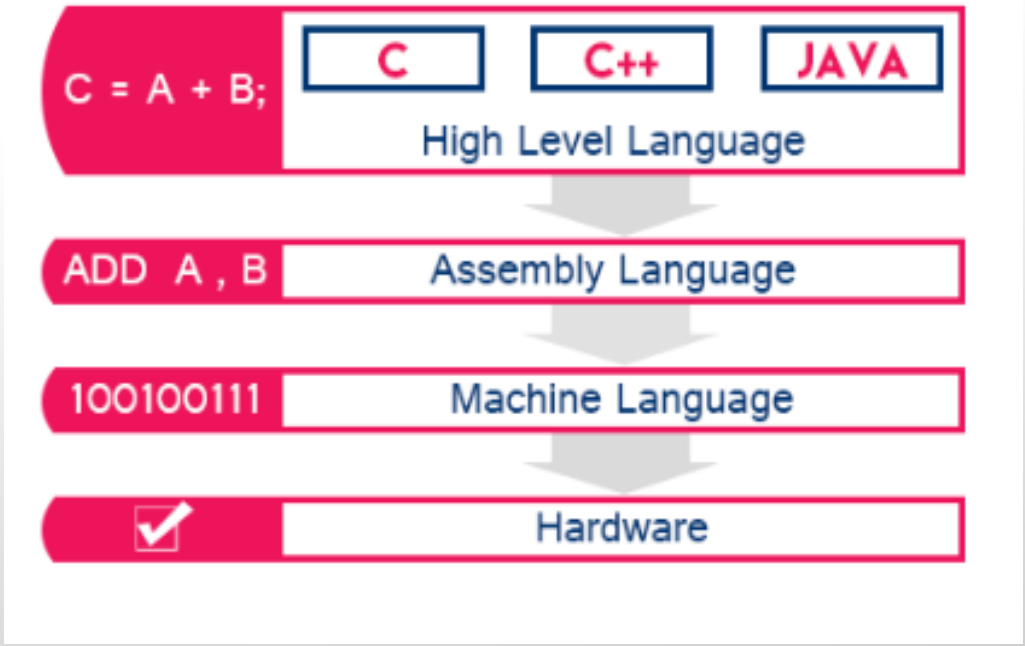


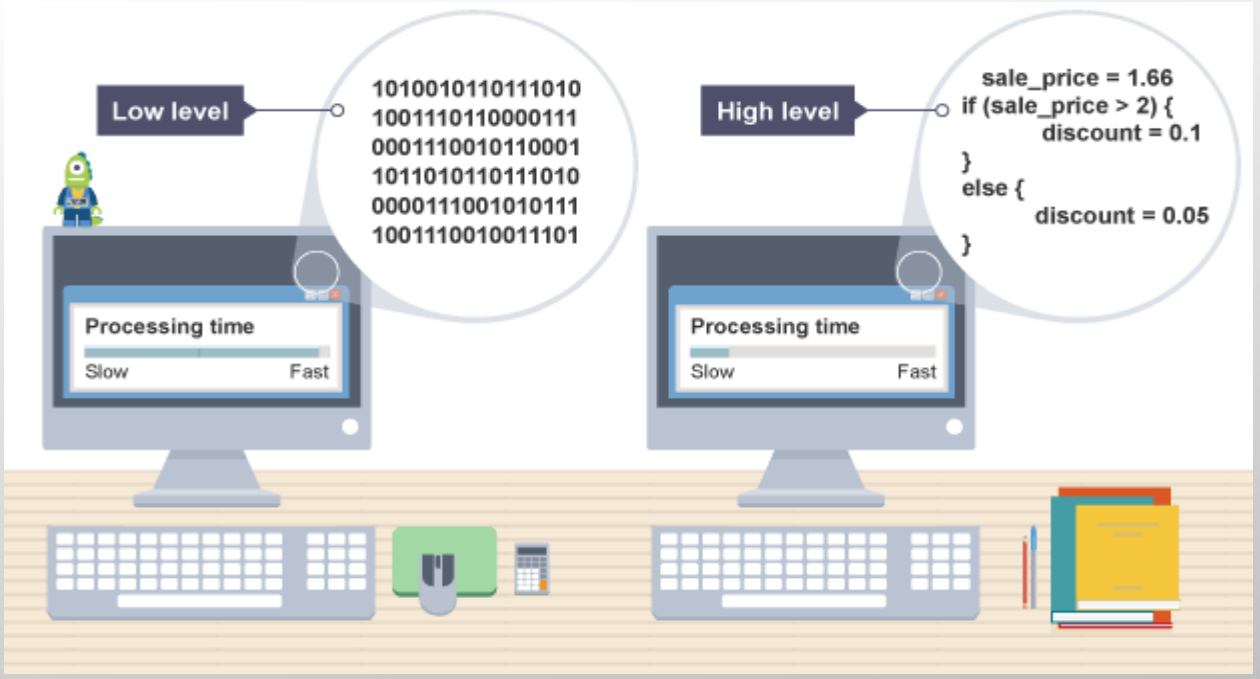
- **High level language:** the programing language which provides a high level of abstraction from the computer's hardware architecture close to natural language by removing much of the hassle associated with low-level programming.

  Examples: C/C++, C#, Java, Python etc..

  Used for: Majorly for all enterprise applications

Note: high-level languages are more simple and readable, allow developers to write programs using a syntax.



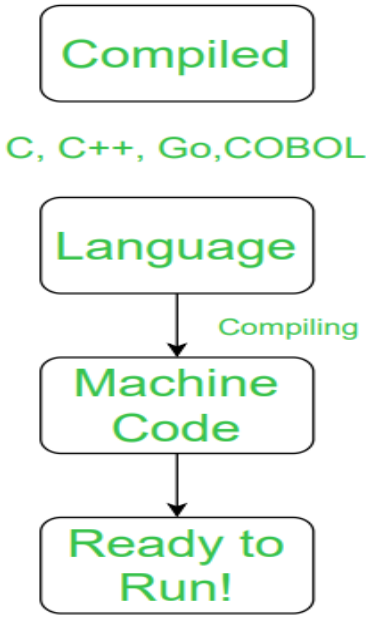


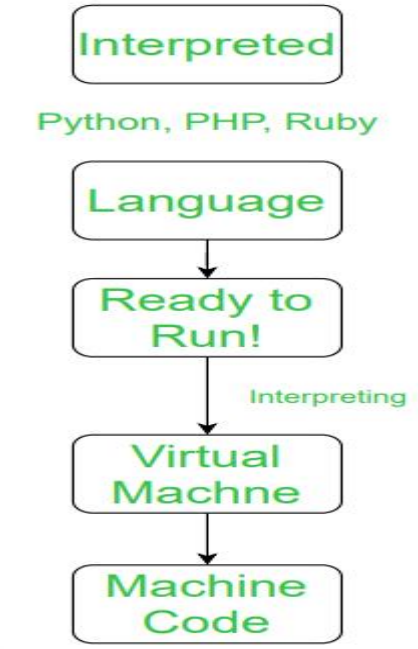
- **Compiled language:** compiled languages are converted directly into machine code that the processor can execute.

  Examples: C, C++, Cobol, C#

- **Interpreted language:** interpreted languages run by interpreters through a program line by line and execute each command

  Examples: JavaScript, Perl, Python



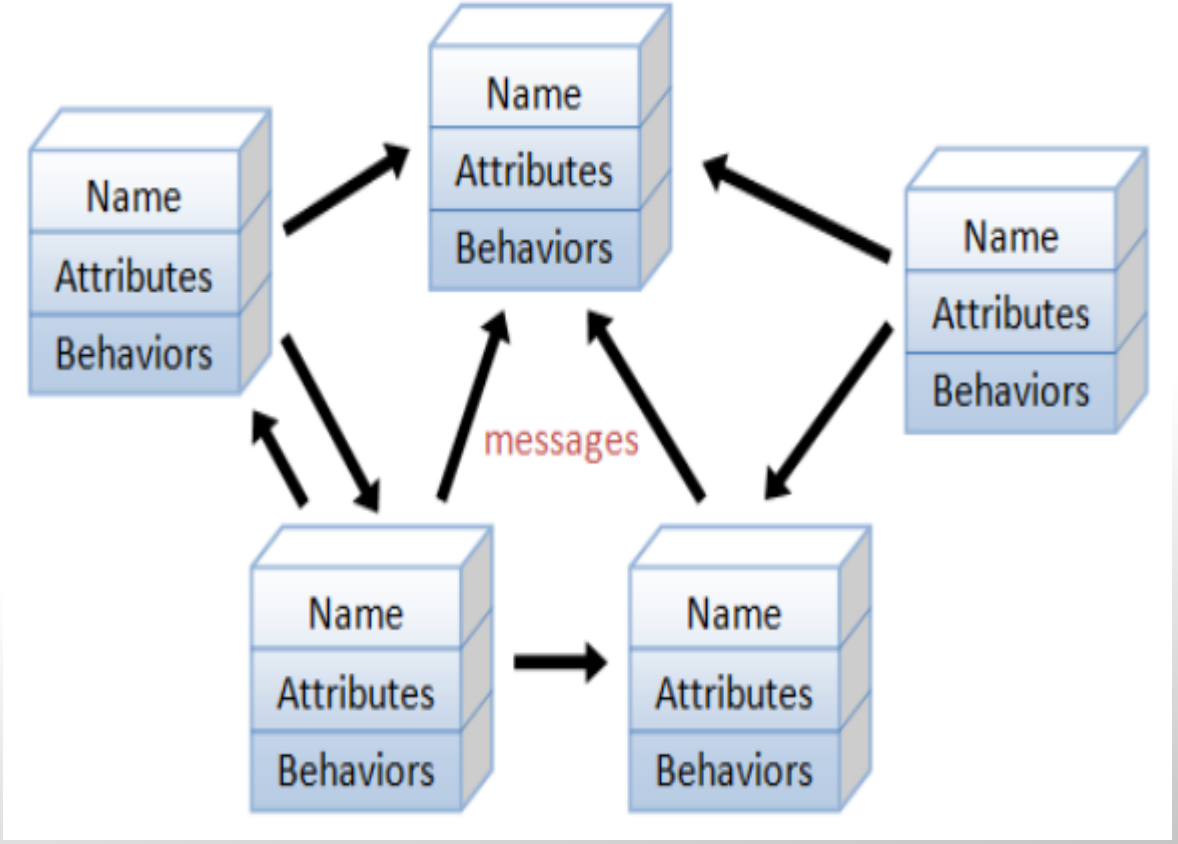


Note: programs that are compiled into native machine code tend to be faster than interpreted code. This is because the process of translating code at run time adds to the overhead and can cause the program to be slower overall.

Compiled / generated binary code is platform dependent where as interpreters execute the source program code themselves, the code itself is platform independent.

- **Object oriented programming (OOP):** it is a programming approach or methodology that organizes objects and classes to structure code around data. An object is a self-contained code unit with distinct attributes and behavior, representing entities in the real world. A class designs the type of data used as a blueprint for creating objects, thus defining the structure and behavior of objects

  Examples: C++, C#, java, python, ruby etc..



Why Python

- Open source
- Large community & extensive libraries for anything
- Syntax is pretty easy compare to other programing languages
- Easy & quick to develop python applications
- Python works on different platforms (Windows, Mac, Linux etc..)
- Used for various applications like Web apps, RESTful APIs, Mobile apps, Games, Data Engineering / Big Data, Data Science, Machine Learning, Artificial Intelligence and cloud Development Services etc..
- One of the most trending technologies around the world in IT

Where Python is used

Portability and Interactivity

Easy and readable

Application and Server side scripting

OOP

Software Testing

Asynchronous Coding

Data Science

Rich Standard Library

Machine Learning & AI

Rich Ecosystem

Visualization Options

Prototyping

Enterprise Application Integration

Web Development

Python Installation

Either install anaconda or python only

- **Installing Anaconda distribution or Jupyter**

  * https://www.anaconda.com/download

  https://anaconda.cloud/

  https://docs.jupyter.org/en/latest/install/notebook-classic.html

- **Installing Python standalone**

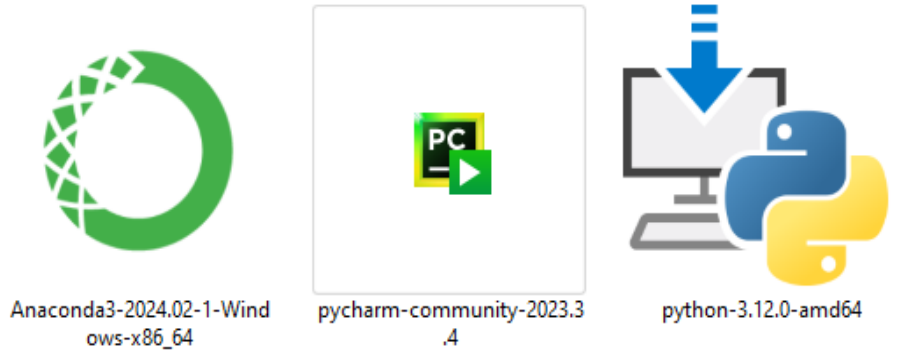
  https://www.python.org/downloads/windows/

  * https://www.python.org/ftp/python/3.12.0/python-3.12.0-amd64.exe

- **Installing Pycharm / Vscode**

  https://www.jetbrains.com/pycharm/download/?section=windows

  * https://www.jetbrains.com/pycharm/download/download-thanks.html?platform=windows&code=pcc



Installation steps will be provided in the video & required softwares are downloaded and placed in the Python_Training/Introduction folder, please follow accordingly.

Assignment

- What is Procedural Programming language, Functional Programming Language, Scripting Programming Language and examples of those
- What is meant by platform dependent program language & examples of such languages
- What is meant by platform independent program language & examples of such languages
- How Python is multi platform language

Recap

- ✓About Instructor & Raj Cloud Technologies
- ✓Courses offered & details of them
- ✓Agenda of the course & organizing the course
- ✓What / where / Why Python
- ✓Basics of different type of programing languages & how they work
- ✓Python installation stuff
- ✓Assignment

Any Questions ??

Contact Us

Raj Cloud Technologies

102, SARAYU ENCLAVE, 4TH MAIN RD, NRI LAYOUT, BENGALURU, KARNATAKA 560016

PHONE: +91 98804 90148 / +91 91138 61544

MAIL: info.rajcloudtech@gmail.com

WEBSITE: Raj Cloud Technologies

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Course Enrollment

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Enroll & Lets get started !!
Wishing You All The Very Best !!

By
Javeed