

Python

Coding for Beginners



Agenda

- Concept of Programming
- Python Introduction
- Application of Python
- Course Syllabus
- Jupyter Notebook
- Q & A

Concept of Programming

What Is Programming?

Programming is using a language that a machine can understand in order to get it to perform various tasks. Computer programming is how we communicate with machines in a way that makes them function how we need.

A program is a group of logical, mathematical and sequential functions grouped together. When they are grouped, these functions perform a task. Each programming language focuses on different types of tasks as well as gives commands to the machine in different ways.

Popular Programming Languages are,

Python, Java, C, C++, Visual Basic, Java Script, Go, Ruby, Perl



Python Introduction

Python is a high-level, interpreted, general-purpose programming language. Its design philosophy emphasizes code readability with the use of significant indentation.

Guido van Rossum who is the founder of python programming language released its first version in 1991 and its current version is Python 3.

Python is ranked as the #1 popular programming language around the world based on two most popular programming language rating agencies.

[Tiobe-index](#), [Pypl.github.io](#)

It's known for its code readability, easy to learn, cross platform support and a strong community with large amount of libraries available in [pypi.org](#)



Founder : Guido van Rossum

Application of Python

Python is the most popular programming language exist today due to its various applications such as,

- Automation & Server less computing
- Artificial Intelligence & Machine Learning
- Big Data & Data analytics
- Image Processing
- Game Development
- Business applications & Software Development

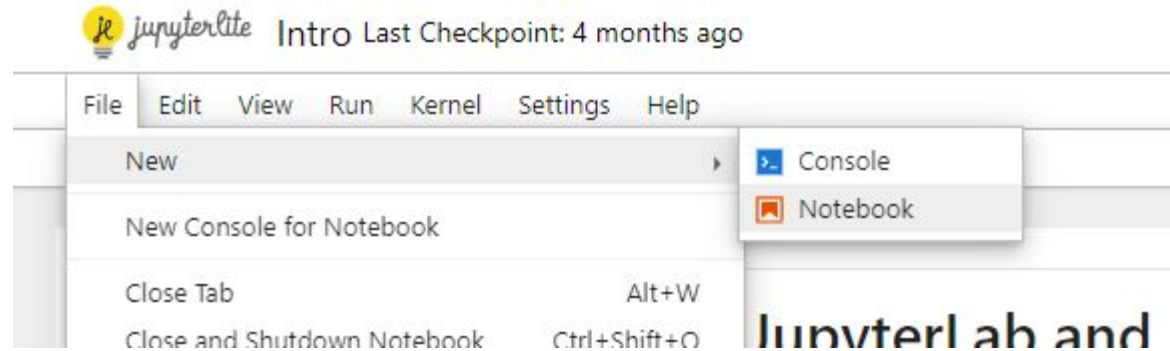
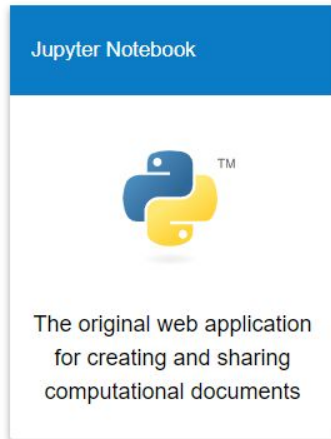


Course Syllabus

- ★ Hello World !!
- ★ Integers, Strings & Variables
- ★ Operators
- ★ Conditionals
- ★ List
- ★ Loops
- ★ Code Challenge 1
- ★ Functions
- ★ Dictionaries
- ★ Files
- ★ Modules
- ★ Code Challenge 2
- ★ Classes
- ★ Code Challenge 3

Jupyter Notebook

1. Click on <https://jupyter.org/try>
2. Select Jupyter Notebook
3. On the new Page File → New → Notebook



Collaborative Programming

Let's Create an account in GitHub

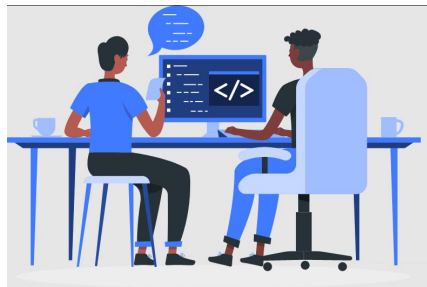
1. Click on <https://github.com/signup>
2. Enter Details and create an account
3. You may require a code
4. Share user id for project access

Setting up GitHub Repo Locally

```
git clone https://github.com/ajay291491/PeepalGrovePython.git
git branch
git checkout <username>
git branch
```

Committing code to Repo

```
git add HelloWorld.py
git commit -m "committing hello world program"
git push
```



Welcome to GitHub!
Let's begin the adventure

Enter your email
✓ ajaya291491@gmail.com

Create a password
✓

Enter a username
✓ ajaya291491

Would you like to receive product updates and announcements via email?
Type "y" for yes or "n" for no

— n

Continue

Q & A