

Day 1

What is Programming:

- Programming is a way for us to tell computers what to do. Computer is a very dumb machine and it only does what we tell it to do. Hence we learn programming and tell computers to do what we are very slow at - computation. If I ask you to calculate $5+6$, you will immediately say. How about 23453453×56456 ?
- You will start searching for a calculator or jump to a new tab to calculate the same. This 100 days of code series will help you learn python from starting to the end. We will start from 0 and by the time we end this course, I promise you will be a Job ready Python developer!

What is Python:

- Python is a dynamically typed, general purpose programming language that supports an object-oriented programming approach as well as a functional programming approach.
- Python is an interpreted and a high-level programming language.
- It was created by Guido Van Rossum in 1989.

Features of Python:

- Python is simple and easy to understand.
- It is Interpreted and platform-independent which makes debugging very easy.
- Python is an open-source programming language.
- Python provides very big library support. Some of the popular libraries include NumPy, Tensorflow, Selenium, OpenCV, etc.
- It is possible to integrate other programming languages within python.

What is Python used for:

- Python is used in Data Visualization to create plots and graphical representations.
- Python helps in Data Analytics to analyze and understand raw data for insights and trends.
- It is used in AI and Machine Learning to simulate human behavior and to learn from past data without hard coding.
- It is used to create web applications.
- It can be used to handle databases.
- It is used in business and accounting to perform complex mathematical operations along with quantitative and qualitative analysis.