# Introduction to Python: Absolute Beginner

**Modality: On Demand**

**Duration: 20 Hours**

## About this course:

Python programmers are probably the most sought after individuals in the tech world, and Python itself is quickly becoming one of the most well-known programming languages. One of the reasons for its popularity is its usefulness in data analysis, which happens to be something that businesses can't get enough of. Apart from R, there's no other language that is used for data analysis. Picking up abilities in either Python or data science is an ensured approach to support your employability – set up the two together and you'll be relentless!

Python is a simple to get the hang of programming language with a wide options of well-paying employment opportunities in numerous fields, including data science, web development, and networking. There couldn't be a better time for you to join the universe of Python!

Pristine to text-based programming? Look at this hands-on course for a top to bottom take a gander at the subtleties of Python layers and concepts. Get plentiful practice drills and tasks, utilizing Jupyter Notebooks on Azure, which require just a program and a connectivity to internet. Adapt the best practices and start coding very quickly.

After exploring data types and variables, you will explore strings, testing, input and formatting. In this course, you will also learn about parameters and arguments. Before the end of the course, you'll have the option to make programs that prompts users for info and utilize conditional (True/False) logic and Python strategies to control numbers and content to give reactions to the user queries.

Prepared to take this ahead? Take this Introduction to Python: Fundamentals course.

## Course Objective:

After finishing this course, the candidates will:

- Explore Python in Jupyter Notebooks
- Comprehend software engineering concepts, for example, flow control
- Explore decisions and repetition using conditional statements and loops
- Build reusable Functions with parameters and return values
- Gather input and manipulate it

## Audience:

This course is intended for:

- Individuals keen on programming who have no prior programming experience
- Python software engineers who need to advance in Python

- Any other individual who is keen on learning Python
- This course isn't for experienced Python developers

## Prerequisites:

Candidates must have basic understanding of Python.

## Course Outline:

### Module 1 Basics

- Starting Jupyter Notebooks
- Types & Variables
- Type Function
- Addition & Errors
- ASCII Art
- Input
- Print Formatting
- Quote display & Boolean
- String Formatting &" in" keyword
- Basics Practice
- end of Mod coding assignment

### Module 2 Functions

- Simple Functions
- function return & multi-parameters
- Sequence
- Function Practice
- end of Mod coding assignment

### Module 3 Conditionals

- Conditionals: Boolean Strings
- Conditionals: Comparison Operators
- String Comparison
- Conditions elif and casting
- Math Operators
- Conditionals Practice
- end of Mod coding assignment

### Module 4 Nesting and Loops

- Nested Conditionals
- Escape Sequences
- 'while' loop and incrementing
- 'while'  Boolean loops
- Nesting and Loop practice

- end of Mod coding assignment

**Module 5 Final Evaluation**

- Final Coding Assignment