Python Development Course:

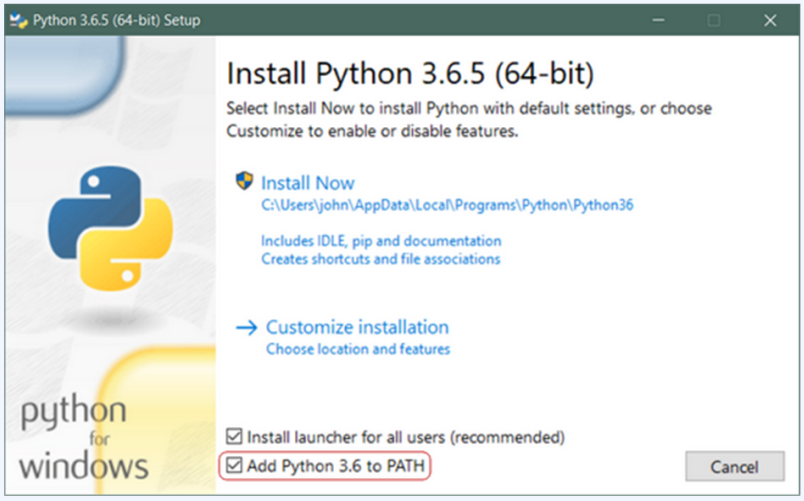
1. *What is Python :*
   Python is an interpreted, object-oriented, high-level programming language with dynamic semantics. Its high-level built in data structures.

2. *Python Use Cases:*
   - Used for web development, scientific & mathematical application development etc..,
   -
   - Provides excellent library support and has a large developer community.
   -
   - Provides easy integration with web services & GUI-based desktop applications.
   -
   - Used by most of the companies such as YouTube, Instagram, Pinterest etc..,
   - Extensively used in Data Science and Machine Learning projects.

3. Python Installation Process

Environment Setup & Python Basics

- **Installation Process:** click on add python x.x to path.



Environment Setup & Python Basics

- **Verify python installation.**
  Execute command python --version

```
C:\Users\CodeLover>python --version
Python 3.7.6
```

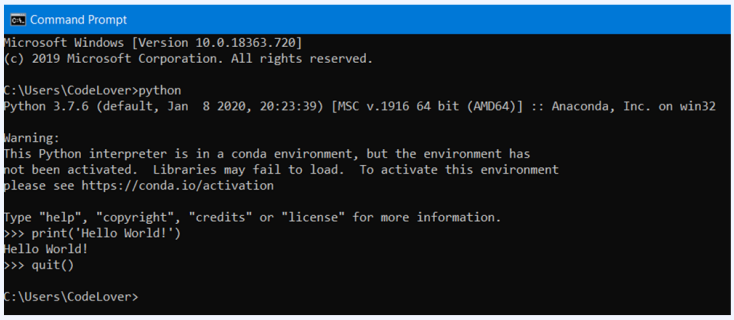
Environment Setup & Python Basics

- **Execution Mode:**

1. Interactive Mode:

- Open command prompt
- Execute command: python
- You should see >>> signs
- To exit this python editor

execute command : quit()



Environment Setup & Python Basics

- **Hello World! Program in python**

  print("Hello World!")

- **Assigning values to variables**

  a = 5

  b = "Edyoda"

  c, d = 3, 4

5. Python Basic Programs

```
a=10
b="Hi Python"
c = 10.5
print(type(a))
print(type(b))
print(type(c))
```

Output:

```
<type 'int'>
<type 'str'>
<type 'float'>
```

Input :

```
a = 5
print("The type of a", type(a))

b = 40.5
print("The type of b", type(b))

c = 1+3j
print("The type of c", type(c))
```

Output:

```
The type of a <class 'int'>
The type of b <class 'float'>
The type of c <class 'complex'>
```