

INTRODUCTION OF PYTHON



What is **Python**?

Python is general purpose high level programming language.

Or

Python is a popular programming language. It was created by Guido van Rossum, and released in 1991.

python is an object oriented language

python is an interpreted interactive, object-oriented programming language.

Guido van Rossum => He was born in Harlem Netherlands in 31 January 1956

It is used for:

1. web development (server-side),
2. software development,
3. mathematics,
4. system scripting.

What can Python do?

1. Python can be used on a server to create web applications.
2. Python can be used alongside software to create workflows.
3. Python can connect to database systems. It can also read and modify files.
4. Python can be used to handle big data and perform complex mathematics.
5. Python can be used for rapid prototyping, or for production-ready software development.

Why Python?

1. Python works on different platforms (Windows, Mac, Linux, Raspberry Pi, etc).
2. Python has a simple syntax similar to the English language.
3. Python has syntax that allows developers to write programs with fewer lines than some other programming languages.
4. Python runs on an interpreter system, meaning that code can be executed as soon as it is written. This means that prototyping can be very quick.
5. Python can be treated in a procedural way, an object-oriented way or a functional way.

What is Variables?

Variables are containers for storing data values.

Creating Variables :-> Python has no command for declaring a variable.
A variable is created the moment you first assign a value to it.

EXERCISE START

EXERCISE START

EXERCISE START

EXERCISE START

EXERCISE START

#Python Code

```
print("Hello World!")
```

```
#This is my addition program
```

```
X = 15
```

```
Y = 10
```

```
Z = x + y
```

```
print(z)
```

```
# This is my subtraction program.
```

```
X = 23
```

```
Y = 22
```

```
Z = x - y
```

```
print(Z)
```

```
#python syntax
```

```
x=24
```

```
if x>20:
```

```
    print("true")
```

```
if x>15:
```

```
    print("this is true")
```

```
#2nd days class
```

python indentation :-> indentation is refers to the beginning of a code line indentation rule mean of

What is Comments ?

It is a statements that we want to show but I don't want to execute

Types of Comments

#single line comments :-> Singal Comment Denoted by #

#multiline comments :-> Multiline Comments Denoted By ''' '''

```
'''x, y, z, = "Sunday", "Monday", "Tuesday"
```

```
print(x)
```

```
print(y)
```

```
print(z)'''
```