FUNCTION DEFINE IN PYTHON

Function	Function Sub Types	Function Depend on these
• Pre-Define Functions • User Define Functions	✓ Return ✓ None Return ✓ Required Arguments ✓ Optional Arguments ✓ Default Function	1. Function Declaration 2. Function Body 3. Function Calling

Function (Sets of instruction that used to stop reparation of codes)

Return Function

Which function that return some values that we can assign in other Variable is called return function

Example
```
def abc(firtName, lastName):
        return firstName + " " + lastName

x=abc("Muhammad","Qasim")
print(x)
```

out put
Muhammad Qasim

```
def abc(firtName, lastName):
        print(firstName + " " + lastName)
        print("2nd statement")

abc("Muhammad","Qasim")
```

Explain
Function Declaration
Function body or statements
Function calling

Pre Define Function (Which function those pre built in programming language)

None Return Function

Which function that not return any value this function just run and execute statements of codes
Example

```
def abc(firtName, lastName):
        print(firstName + " " + lastName)

abc("Muhammad","Qasim")
```

out put
Muhammad Qasim

User Define Function (Which function that created by programmer for particular Problem)

Required Arguments Function

Which function that required the argument if we don't give so our program will be crashed without argument our function notable to execute statements of code

```
def abc(firtName, lastName):
        print(firstName + " " + lastName)

abc("Muhammad")
```

out put
Error
Because our function required two argument but we provide one argument

Optional Arguments Function

Which function that has option argument if we give this argument so function process this argument value otherwise this argument value default set by programmer when declare the function (Cell="Nonumber")

```
def abc(firtName, lastName, cell="Nonumber"):
        print(firstName + " " + lastName)
        if cell != "Nonumber":
                print cell

abc("Muhammad","Qasim")
abc("Zeeshan","Hanif","03###-#####")
```

out put
Muhamad Qasim
Zesshan Hanif 03###-#######
Because our function required two argument but we provide one argument

Default Function

Which function that not require any argument is called default function.

```
def abc():
        print("I am Default function")
        print("I don't need any argument")

abc()
```

out put
I am Default function
I don't need any argument
Because our function required two argument but we provide one argument