

# FUNCTION DEFINE IN PYTHON

Function	Function Sub Types	Function Depend on these
<ul style="list-style-type: none"><li>Pre-Define Functions</li><li>User Define Functions</li></ul>	<ul style="list-style-type: none"><li>✓ Return</li><li>✓ None Return</li><li>✓ Required Arguments</li><li>✓ Optional Arguments</li><li>✓ Default Function</li></ul>	<ol style="list-style-type: none"><li>Function Declaration</li><li>Function Body</li><li>Function Calling</li></ol>
<b>Function</b> (Sets of instruction that used to stop reparation of codes)	<b>Return Function</b> Which function that return some values that we can assign in other Variable is called return function  Example <pre>def abc(firtName, lastName):     return firtName + " " + lastName</pre> <pre>x=abc("Muhammad","Qasim") print(x)</pre> out put <b>Muhammad Qasim</b>	<pre>def abc(firtName, lastName):     print(firtName + " " + lastName)     print("2<sup>nd</sup> statement")</pre> <pre>abc("Muhammad","Qasim")</pre> <b>Explain</b> <i>Function Declaration</i> <i>Function body or statements</i> <i>Function calling</i>
<b>Pre Define Function</b> (Which function those pre built in programming language)	<b>None Return Function</b> Which function that not return any value this function just run and execute statements of codes Example  <pre>def abc(firtName, lastName):     print(firtName + " " + lastName)</pre> <pre>abc("Muhammad","Qasim")</pre> out put <b>Muhammad Qasim</b>	
<b>User Define Function</b> (Which function that created by programmer for particular Problem)	<b>Required Arguments Function</b> 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  <pre>def abc(firtName, lastName):     print(firtName + " " + lastName)</pre> <pre>abc("Muhammad")</pre> out put <b>Error</b> Because our function required two argument but we provide one argument	
	<b>Optional Arguments Function</b> 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")  <pre>def abc(firtName, lastName, cell="Nonumber"):     print(firtName + " " + lastName)     if cell != "Nonumber":         print cell</pre> <pre>abc("Muhammad","Qasim") abc("Zeeshan","Hanif","03###-#####")</pre> out put <b>Muhamad Qasim</b> <b>Zesshan Hanif 03###-#####</b> Because our function required two argument but we provide one argument	
	<b>Default Function</b> Which function that not require any argument is called default function.  <pre>def abc():     print("I am Default function")     print("I don't need any argument")</pre> <pre>abc()</pre> out put <b>I am Default function</b> <b>I don't need any argument</b> Because our function required two argument but we provide one argument	