

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ



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Web Design & Framework

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Chapter-8

Function & Recursion

1. **Function:**

1. A function is group of statements performing a specific task.
2. A function can be reused by the performance in a given program any number.

2. **Example:**

```
python > function.py > func1
1 # function
2 def func1():
3     print("alia")
4     #function cal
5     func1()
```

Output:

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
PS D:\software h> python -u "d:\software h\python\function.py"
alia
```

2. **Function call:**

A callable object is an object that can accept some arguments (also called parameters) and possibly return an object (often a tuple containing multiple objects)

- **Syntax:**

Func1()

1. **Example:**

```
python > function.py > func1
4 #function cal
5 func1()
6 # sum
7 def func1(a,b):
8     print("sum is" ,a+b)
9     func1(2+7)
```

✚ Types of function:

Two types of function in python are given:

1. Built in functions
2. User defined functions

✚ Example of built in:

len(), print(), range()

1. Example of user define:

func1(), funct2()

1. **Function with Argument:**

An argument is the value that are sent to the function when it is called.

✚ Example:

```
python > function.py > func1
6 | print('sum is',a+b)
7 | #function argument
8 | def func1(a,b):
9 |     divide= a/b
10 |     #print(divide)
11 |     return divide
12 | a = func1(15,5)
13 | print(a)
14 |
```

Output :

```
PS D:\software h> python -u "d:\software h\python\function.py"
3.0
PS D:\software h>
```