

Papers Dock

**PYTHON**

**9618**

**FUNCTIONS**

# What are Functions ?



# What are Functions ?

A function is basically a block of code which only runs when it is called and you can pass data into the function which are know as "Parameters"

# Syntax Of Function



```
def name():  
    print("Hello")
```

# Calling A Function



**name()**

```
def name():  
    print("Hello")
```

name()

name()

name()

Hello

Hello

Hello

# Question

Create a greeting function

Eg: Hello Taha

```
def greeting(name):  
    print("Hello" + " " + name)  
  
greeting("Taha")  
greeting("Sam")
```

Hello Taha

Hello Sam



# Practice Question

Create a function for average in which  
take sum and count as parameters



```
def average(sum, count):  
    avg = sum/count  
    return avg
```

```
ans = average(500, 20)  
print(ans)
```

# Practice Question

Create a function to display the table of the number which is passed as perimeter

```
def table(num):  
    for x in range(11):  
        ans = num * x  
        text = str(num) + " " + "x" + " " + str(x) + " " + "=" + " " + str(ans)  
        print(text)
```

table(2)

```
2 x 0 = 0  
2 x 1 = 2  
2 x 2 = 4  
2 x 3 = 6  
2 x 4 = 8  
2 x 5 = 10  
2 x 6 = 12  
2 x 7 = 14  
2 x 8 = 16  
2 x 9 = 18  
2 x 10 = 20
```

# Practice Question

Create a function for finding the largest value in an array and then print the table of that number

Number = [45, 34, 23, 87, 96, 23]

```
Number = [45, 34, 23, 87, 96, 23]
```

```
def table(num):
```

```
    for x in range(11):
```

```
        ans = num * x
```

```
        text = str(num) + " " + "x" + " " + str(x) + " " + "=" + " " + str(ans)
```

```
        print(text)
```

```
def large(array):
```

```
    largenum = 0
```

```
    for x in range(len(array)):
```

```
        if array[x] > largenum:
```

```
            largenum = array[x]
```

```
    return largenum
```

```
temp = large(Number)
```

```
table(temp)
```

# Practice Question

## Linear Search Function

pass an array as parameter and string value which you are suppose to find

```
name = ["Taha", "Ahmed", "Qasim"]
```

```
def linearsearch(array, find):  
    for x in range(len(array)):  
        if array[x] == find:  
            return x
```

```
index = linearsearch(name, "Ahmed")  
print(index)  
index2 = linearsearch(name, "Qasim")  
print(index2)  
index3 = linearsearch(name, "bano")  
print(index3)
```



