

# Full stack web development using python

## functions



Saurabh Shukla (MySirG)

# Agenda

- ① Function Introduction
- ② Defining function
- ③ Function call vs function definition
- ④ Ways to define a function

## Function

Function is a block of code which only runs when it is called.

Function has a name for identification

 Keyword    Function Definition

def functionName(args):

code

code

# Function call vs Function Definition

Function  
Definition →

Function Call →

→ f1()  
→ f1()  
→ f1()

```
def f1():  
    a=int(input("Enter a number"))  
    b= a ** 2  
    print("Square of ",a,"is", b)
```

Once function is  
defined, it can be  
called any number  
of times

## Ways to define a function

- ① Takes Nothing, Returns Nothing
- ② Take Something, Returns Nothing
- ③ Takes Nothing, Return Something
- ④ Take Something, Return Something

variable created inside function  
body are called local variables.

## Takes Nothing, Returns Nothing

```
def add():  
    ← TN  
    print ("Enter two numbers")  
    a= int (input ())  
    b= int (input ())  
    c= a+b  
    print ("Sum is",c)
```

add() ← TN

Take Something, Returns Nothing

```
def add(a,b):  
    c = a + b  
    print("sum is",c)
```

Formal Arguments

add(10, 20)  
Actual Arguments

Takes Nothing, Return Something

```
def add():
    print("Enter two numbers")
    a= int(input())
    b= int(input())
    c= a+b
    return c
```

```
s= add()
print("Sum is", s)
```

Take Something, Return Something

def add(a,b):

c = a + b

return c

add(10, 20)