User Defined Function with return

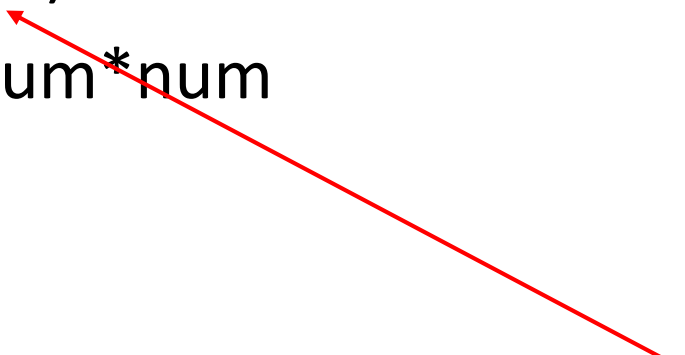
Using **return** keyword in a Function

- **return** keyword
  - **returns information from the function**
  - and **breaks** out of the function

use return keyword to return something from the function

```
def square(num):
        return num*num

print("A number squared is: ", square(4))
```



#calls the function,

#passes 4 (argument) to the function

#returns breaks out of the function

#goes back to location it was called

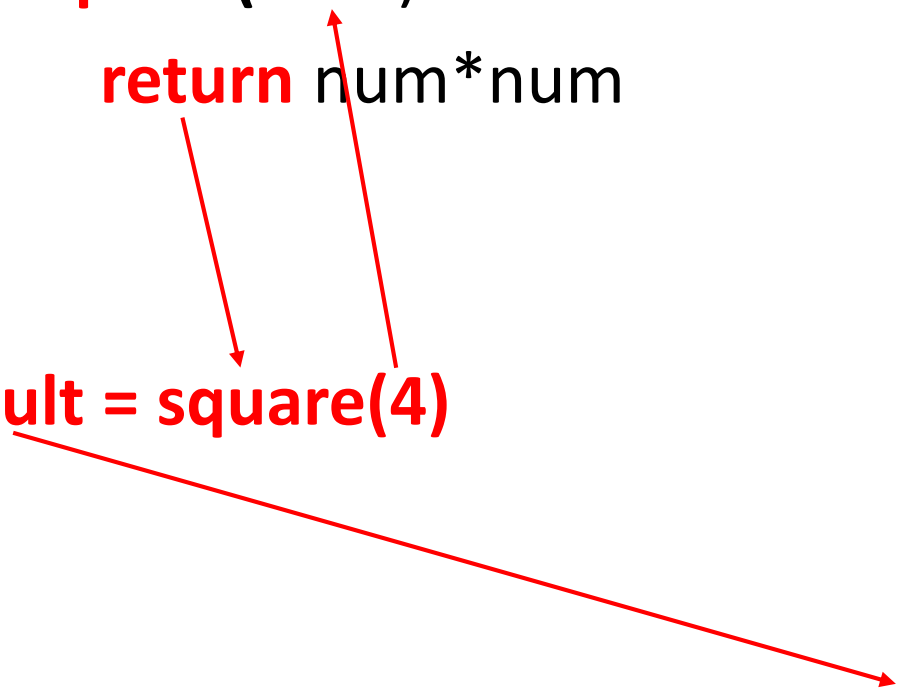
#What will be printed?

Another Example

```
def square(num):
        return num*num

result = square(4)

print("A number squared is: ", result)
```



#return keyword will break out of the #function

#calls the function

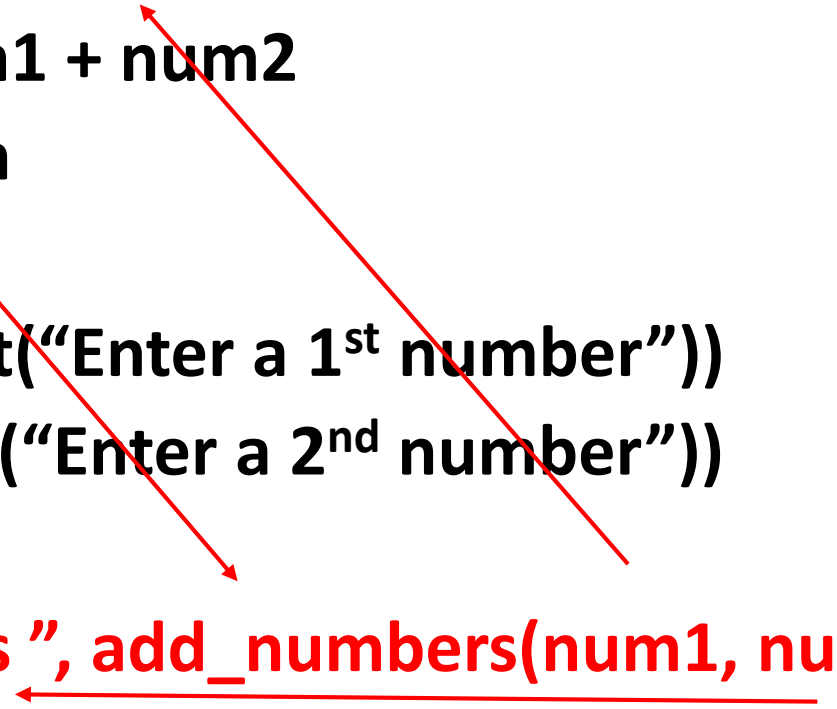
#passes 4 (argument) to the function

use return keyword to return something from the function

```
def add_numbers(num1, num2):
        sum = num1 + num2
        return sum


num1  = int(input("Enter a 1st number"))
num2 = int(input("Enter a 2nd number"))

print("The sum is ", add_numbers(num1, num2))
```



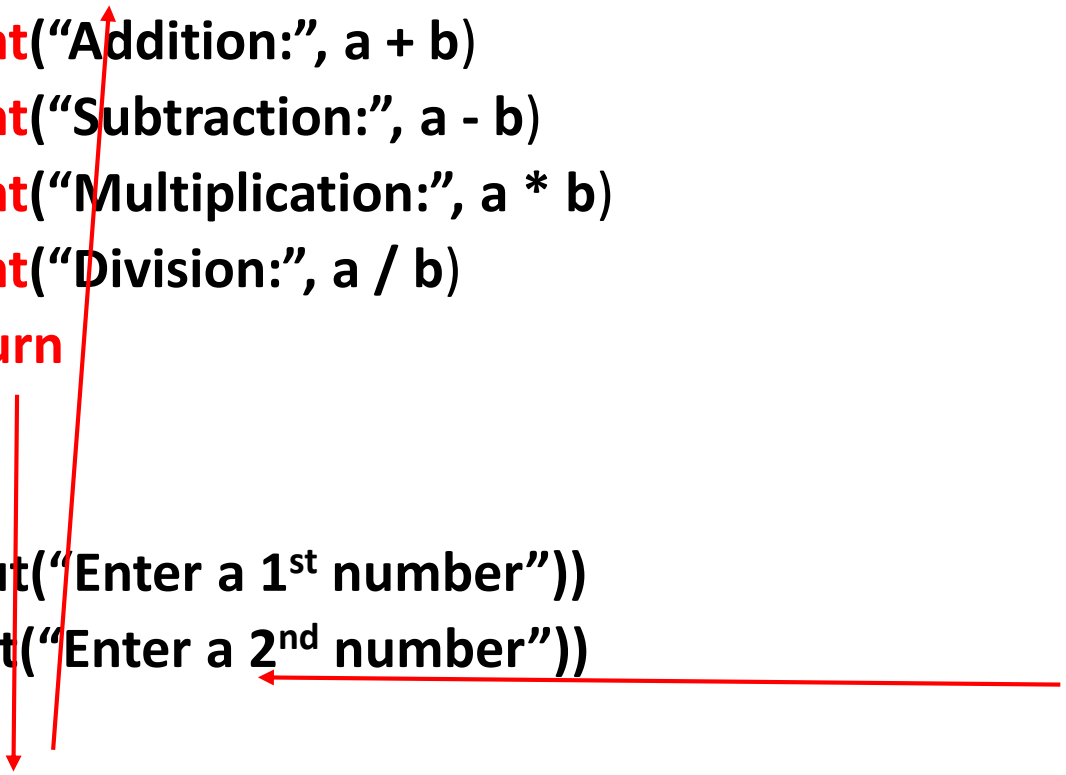
#calls the function,
#passes num1, num2 (arguments)
#to the function
#returns breaks out of the function
#goes back to where the function was
#called

return keyword to break out of the function and go back to where function was called.

```
def calculator(a, b):
        print("Addition:", a + b)
        print("Subtraction:", a - b)
        print("Multiplication:", a * b)
        print("Division:", a / b)
        return


a  = int(input("Enter a 1st number"))
b = int(input("Enter a 2nd number"))

calculator(a, b)
```



#calls the function,

#passes a, b (arguments)

#to the function

#returns breaks out of the function

#goes back to where the function was called

```
# Python Functions Example
def sumAndAverage(x, y, z):
    Sum = x + y + z
    Average = Sum/3
    print("\n %d is the Total Sum of three Numbers." %Sum)
    print("\n %d is the Average of three Numbers.\n" %Average)

# Allows User to enter three values
a = int(input("\nPlease Enter the First Value. a =  "))
b = int(input("\nPlease Enter the Second Value. b =  "))
c = int(input("\nPlease Enter the Third Value. c =  "))

# Calling the Function
sumAndAverage(a, b, c)
sumAndAverage(10, 20, 30)
```

#Calls the function 1st time

#Calls the function 2nd time

Search the Internet for more

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Examples