#### **Python existing functions**

# **Sample of Math functions**

import math

```
print (pow(3,2)) # 9
print (3**2) # 9
```

### **Sample of String functions**

```
str = "python"
print(str.upper()) # PYTHON
print(len(str)) # 6
print(round(3.7)) # 3
print(floor(3.7)) # 4
```

## **Creating functions in Python**

```
# This program displays a random number in the range of 1 through 10. import random
```

```
def main():
```

```
# Get a random number.

number = random.randint(1, 10)

# Display the number.

print('The number is', number)
```

# Call the main function. main()

#### Test-run:

```
=== RESTART: /Users/staff/Downloads/py1.py ===
The number is 6
>>>
=== RESTART: /Users/staff/Downloads/py1.py ===
The number is 4
>>>
=== RESTART: /Users/staff/Downloads/py1.py ===
The number is 2
>>>
```

```
# This program demonstrates a function that accepts
# two arguments.
def main():
  print('The sum of 12 and 45 is')
  show_sum(12, 45)
# The show_sum function accepts two arguments
# and displays their sum.
def show_sum(num1, num2):
  result = num1 + num2
  print(result)
# Call the main function.
main()
Test-run:
The sum of 12 and 45 is 57
This program shows how to create a function.
Author: Sam
import random
# This function adds the two numbers and display the result
def show_sum(num1, num2):
  result = num1 + num2
  return result
def main():
  x1 = eval(input("Enter a number: "))
  x2 = eval(input("Enter another number: "))
  print("The sum is", show_sum(x1, x2))
main()
Test-run:
Enter a number: 20
Enter another number: 5
The sum is 25
```