

# Python\_basic\_programming\_1

1. Write a Python program to print 'Hello Python' ?

```
In [1]: print('Hello Python')
```

Hello Python

2. Write a Python program to do arithmetic operations addition and division

```
In [ ]: # Input numbers:
num1 = 15
num2 = 25

# Add two numbers
sum = float(num1)+float(num2)
#Divide two numbers
div = float(num1)/float(num2

# Display the sum
print('The sum of {0} and {1} is {2}'.format(num1,num2,sum))
#Display the division
print('The division of {0} and {1} is {2}'.format(num1,num2,div))
```

3. Write a Python program to find the area of a triangle ?

```
In [2]: height = int(input('Enter height of triangle: '))
base = int(input('Enter base of triangle: '))

def areaOfTriangle(height,base):
    print('\nArea of triangle ->',0.5*height*base)

areaOfTriangle(height,base)
```

Enter height of triangle: 6  
Enter base of triangle: 8

Area of triangle -> 24.0

4. Write a Python program to swap two variables ?

```
In [3]: num_1 = int(input("Enter First Number: "))
num_2 = int(input("Enter Second Number: "))

def swapNumbers(a,b):
    temp = a
    a = b
    b = temp
    return a,b

print('Before swapping -> ',num_1,num_2)
num_1, num_2 = swapNumbers(num_1,num_2)
print('After swapping -> ',num_1,num_2)
```

Enter First Number: 3  
Enter Second Number: 4  
Before swapping -> 3 4  
After swapping -> 4 3

5. Write a Python program to generate a random number ?

```
In [4]: from random import randint

def generateRandomNumber(start=0, end = 100000):
    print('Random number -> ',randint(start, end))

# Generating random numbers without arguments
generateRandomNumber()

# Generating random numbers with arguments
generateRandomNumber(0,100)
```

Random number -> 34698  
Random number -> 22