

Python_basic_programming_1

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

In []:

```
print('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: 1
Enter Second Number: 2
Before swapping ->  1 2
After swapping ->  2 1
```

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

In [5]:

```
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 ->  17398
Random number ->  70
```