Basic Programming Assignment 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 [2]: # Addition
        num1 = float(input("Enter the first number: "))
        num2 = float(input("Enter the second number: "))
        sum_result = num1 + num2
        print("The sum of", num1, "and", num2, "is:", sum_result)
        # Division
        num1 = float(input("Enter the numerator: "))
        num2 = float(input("Enter the denominator: "))
        if num2 != 0:
            division_result = num1 / num2
            print("The division of", num1, "by", num2, "is:", division result)
            print("Error: Division by zero is not allowed!")
        Enter the first number: 10
        Enter the second number: 25
        The sum of 10.0 and 25.0 is: 35.0
        Enter the numerator: 10
        Enter the denominator: 25
        The division of 10.0 by 25.0 is: 0.4
```

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

```
In [3]: base = float(input("Enter the length of the base of the triangle: "))
height = float(input("Enter the height of the triangle: "))

area = 0.5 * base * height
print("The area of the triangle is:", area)

Enter the length of the base of the triangle: 10
Enter the height of the triangle: 25
The area of the triangle is: 125.0
```

4. Write a Python program to swap two variables?

```
In [4]: var1 = input("Enter the value of variable 1: ")
         var2 = input("Enter the value of variable 2: ")
         print("Before swapping:")
         print("Variable 1 =", var1)
print("Variable 2 =", var2)
         # Swapping variables
         temp = var1
         var1 = var2
         var2 = temp
         print("After swapping:")
         print("Variable 1 =", var1)
print("Variable 2 =", var2)
         Enter the value of variable 1: 10
         Enter the value of variable 2: 25
         Before swapping:
         Variable 1 = 10
         Variable 2 = 25
         After swapping:
         Variable 1 = 25
         Variable 2 = 10
```

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

```
In [7]: from random import randint
```

```
def generateRandomNumber(start=0, end=100):
    print('Random number -> ',randint(start,end))

# Generating random numbers without arguments
generateRandomNumber()

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

Random number -> 26 Random number -> 79

Loading [MathJax]/jax/output/CommonHTML/fonts/TeX/fontdata.js