

- WAP to print "Hello World"?

```
In [1]: 1 print("Hello world")
```

Hello world

- Write a Python program to do arithmetical operations addition and division.?

```
In [3]: 1 2+3
```

Out[3]: 5

```
In [4]: 1 4/2
```

Out[4]: 2.0

- Write a Python program to find the area of a triangle?

```
In [5]: 1 def triangle_area(base, height):
2         area = 0.5 * base * height
3         return area
4
5
6 base = float(input("Enter the base length of the triangle: "))
7 height = float(input("Enter the height of the triangle: "))
8
9
10 area = triangle_area(base, height)
11 print(f"The area of the triangle with base {base} and height {height} is: {area}")
```

Enter the base length of the triangle: 5

Enter the height of the triangle: 5

The area of the triangle with base 5.0 and height 5.0 is: 12.5

- Write a Python program to swap two variables?

```
In [6]: 1 # Function to swap two variables
2 def swap_variables(a, b):
3     temp = a
4     a = b
5     b = temp
6     return a, b
7
8 # Taking user input for two variables
9 var1 = input("Enter the first variable: ")
10 var2 = input("Enter the second variable: ")
11
12 # Displaying the initial values
13 print(f"Before swapping: var1 = {var1}, var2 = {var2}")
14
15 # Swapping the variables using the function
16 var1, var2 = swap_variables(var1, var2)
17
18 # Displaying the swapped values
19 print(f"After swapping: var1 = {var1}, var2 = {var2}")
```

Enter the first variable: 8
Enter the second variable: 6
Before swapping: var1 = 8, var2 = 6
After swapping: var1 = 6, var2 = 8

- Write a Python program to generate a random number?

```
In [7]: 1 import random
2
3 # Generate a random integer between a specific range
4 random_number = random.randint(1, 100) # Generates a random number between 1 and 100
5 print(f"Random number between 1 and 100: {random_number}")
6
7 # Generate a random floating-point number between 0 and 1
8 random_float = random.random() # Generates a random floating-point number between 0 and 1
9 print(f"Random float between 0 and 1: {random_float}")
10
```

Random number between 1 and 100: 61
Random float between 0 and 1: 0.3667613115623555

```
In [ ]: 1
```