

## ▼ Programming Assignment\_1

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### ▼ 1. Write a Python program to print "Hello Python"?

```
print("Hello Python")

Hello Python
```

### ▼ 2. Write a Python program to do arithmetical operations addition and division.?

```
# Get the two numbers from the user
num1 = float(input("Enter the first number: "))
num2 = float(input("Enter the second number: "))

# Perform addition and print the result
sum = num1 + num2
print("The sum of", num1, "and", num2, "is", sum)

# Perform division and print the result
if num2 != 0:
    quotient = num1 / num2
    print("The quotient of", num1, "and", num2, "is", quotient)
else:
    print("Cannot divide by zero")
```

```
Enter the first number: 5
Enter the second number: 2
The sum of 5.0 and 2.0 is 7.0
The quotient of 5.0 and 2.0 is 2.5
```

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

```
# Get the base and height of the triangle from the user
base = float(input("Enter the base of the triangle: "))
height = float(input("Enter the height of the triangle: "))

# Calculate the area of the triangle
area = 0.5 * base * height

# Print the area of the triangle
print("The area of the triangle is:", area)

Enter the base of the triangle: 3
Enter the height of the triangle: 6
The area of the triangle is: 9.0
```

### ▼ 4. Write a Python program to swap two variables?

```
# Get the values of the two variables from the user
a = input("Enter the value of variable a: ")
b = input("Enter the value of variable b: ")

# Print the values before swapping
print("Before swapping: a =", a, "and b =", b)

# Swap the values of a and b
a, b = b, a

# Print the values after swapping
print("After swapping: a =", a, "and b =", b)
```

```
Enter the value of variable a: 5
Enter the value of variable b: 3
```

```
Before swapping: a = 5 and b = 3  
After swapping: a = 3 and b = 5
```

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

```
import random  
  
# Generate a random integer between 0 and 10  
random_num = random.randint(0, 10)  
  
# Print the random integer  
print("The random number is:", random_num)
```

```
The random number is: 8
```

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