Q1. Calculate the multiplication and sum of two numbers

```
num1 = int(input("Enter the first number: "))
num2 = int(input("Enter the second number: "))
# Calculate the multiplication of the two numbers
multiplication = num1 * num2
# Calculate the sum of the two numbers
addition = num1 + num2
print(f"The multiplication of {num1} and {num2} is: {multiplication}")
print(f"The sum of {num1} and {num2} is: {addition}")
```

Q2. Declare two variables and print that which variable is largest using ternary operators

```
num1 = int(input("Enter the first number: "))
num2 = int(input("Enter the second number: "))
# Use the ternary operator to determine the larger number
largest = num1 if num1 > num2 else num2
print(f"The largest number between {num1} and {num2} is: {largest}")
```

Q3. Python program to convert the temperature in degree centigrade to Fahrenheit

```
celsius = float(input("Enter the temperature in Celsius: "))
# Convert Celsius to Fahrenheit using the formula: Fahrenheit = (Celsius * 9/5) + 32
fahrenheit = (celsius * 9/5) + 32
print(f"The temperature in Fahrenheit is: {fahrenheit}°F")
```

Q4. Python program to find the area of a triangle whose sides are given

```
import math
a = float(input("Enter the length of the first side: "))
```

```
b = float(input("Enter the length of the second side: "))
c = float(input("Enter the length of the third side: "))
if a + b > c and a + c > b and b + c > a:
    # Calculate the semi-perimeter (s)
    s = (a + b + c) / 2
    # Calculate the area using Heron's formula
    area = math.sqrt(s * (s - a) * (s - b) * (s - c))
    print(f"The area of the triangle is: {area:.2f}")
else:
    print("The entered sides do not form a valid triangle.")
```