

Python Masterclass-1 Assignment

1. Write a Python program to display "Hello, World!" on the console.

Hint: To display "Hello, World!" on the console in Python, you can make use of the built-in `print()` function. Remember to enclose the string within quotes (") or double quotes (") to define it as a string literal.

2. Write a Python program that prompts the user to enter two numbers, and then performs the following operations:

Addition: Print the sum of the two numbers.

Subtraction: Print the difference between the two numbers.

Multiplication: Print the product of the two numbers.

Division: Print the result of dividing the first number by the second number.

Hint: Use the `input()` function to prompt the user to enter two numbers and store them in variables.

Convert the user input from strings to integers or floats using `int()` or `float()` functions.

Perform the addition, subtraction, multiplication, and division operations on the numbers.

Print the results using the `print()` function.

3. Write a Python program that calculates the area and perimeter of a rectangle. Prompt the user to enter the length and width of the rectangle, and then calculate and print the area and perimeter.

Hint: Use the `input()` function to prompt the user to enter the length and width of the rectangle, and store the values in variables.

Convert the user input from strings to integers or floats using `int()` or `float()` functions.

Calculate the area of the rectangle by multiplying the length and width.

Calculate the perimeter of the rectangle by adding the lengths of all sides (twice the length plus twice the width).

Print the calculated area and perimeter using the `print()` function.

Optional Advanced-level question:

Write a Python program to convert temperature in Celsius to Fahrenheit. The formula to convert Celsius to Fahrenheit is: $F = (C * 9/5) + 32$, where F is the temperature in Fahrenheit and C is the temperature in Celsius.