Day 4 : Comparison Operators

Problem 1: Greet the User

Description:
Create a Python program to greet the user by their name.

Problem 2: Calculate Rectangle Area

Description:
Develop a Python program to calculate the area of a rectangle using user-provided dimensions.

Problem 3: Compare Two Numbers

Description:
Write a Python program to compare two numbers and determine if they are equal.

Problem 4: Voting Eligibility Check

Description:
Create a Python program to check if a user is eligible to vote based on their age.

Problem 5: Shopping Budget Evaluation

Description:
Design a Python program to evaluate if a user can afford items within a specified budget.

Problem 6: Comparison of Two Variables

Description:
Given two variables
`x=5` and `y=7`, write a Python expression that checks if `x` is greater than `y`.
Store the result in a variable `z` and print it.

Problem 7: Compare Seven Numbers

Description:
Take 7 variables named
`a`, `b`, `c`, `d`, `e`, `f`, and `g`. Calculate `sum1 = (a + b) * c` and `sum2 = d + e + f + g`.
Print whether `sum1` is greater than `sum2`.

Problem 8: Play with Expressions

Description:
Calculate and print the result of the expression
`(a + b) * c / d - e`, where `a`, `b`, `c`, `d`, and `e` are variables.

Problem 9: Variable Swap

Description:
Write a Python program to swap the values of two variables without using a temporary variable.

Problem 10: Convert Celsius to Fahrenheit

Description:
Write a Python program that converts a given temperature in Celsius to Fahrenheit using the formula
`°F = (°C × 9/5) + 32`.

Problem 11: Multiple of 5

Description:
Take a variable, store a number, and check if the number is a multiple of 5.

Problem 12: Same Last Digit

Description:
Take two integer variables, store integer numbers, and check if they have the same last digit without using any string conversion.

Problem 13: Even or Odd Sum

Description:
Write a Python expression to check if the sum of two given numbers is even.

Problem 14: Equal Characters Check

Description:
Check if two characters, 'A' and 'B', are equal without using conditional statements.

Problem 15: Odd or Even Check

Description:
Determine if a number is odd or even without using conditional statements.