Day 5: Conditional Statements

Problem 1:

Write a Python program that compares two variables and prints the larger one.

Problem 2:

Write a Python program that assigns a value to a variable representing age. If the age is less than 18, print "You are minor"; otherwise, print "You are an adult".

Problem 3:

Develop a Python program that assigns a value to a variable and checks whether it is divisible by 5, printing "Divisible by 5" or "Not divisible by 5" accordingly.

Problem 4:

Develop a Python program that assigns a value to a variable representing a number and checks whether it is even or odd.

Problem 5:

Write a Python program that assigns a value to a variable representing a number and checks whether it is positive. If it is positive, print "Positive"; otherwise, print "Not positive".

Problem 6:

1. Write code to check if a number is positive, negative, or zero.
2. Write code that calculates the final grade (A, B, C, D, or F) for a student.
3. Write code that takes a user's age and checks for "You're a minor" if the age is less than 18, and "You're an adult" otherwise.
4. Write code that determines if a given year is a leap year and logs the result.

Problem 7: Marriage Eligibility Check:

Create a Python program to determine if a person is eligible for marriage based on their gender and age. If the person is male, check if he is 21 years or older; if yes, he is eligible. If the person is female, check if she is 18 years or older; if yes, she is eligible. Print a message indicating whether the person is eligible for marriage or not.

Problem 8: Driving Eligibility:

Create a Python program to determine if a person is eligible to obtain a driver's license. If the person is 16 or older, check if they have passed the written test. If they have passed the written test, they are eligible for a driver's license; otherwise, they are not eligible.

Problem 9: Online Food Ordering:

- If the order total is 50 or more, the customer is eligible for free delivery.
- If the order total is less than 50, check the customer's loyalty status:
    - If the customer is a loyalty member (yes/no), they are eligible for free delivery.
    - If the customer is not a loyalty member, check the distance from the restaurant to the delivery address:
        - If the distance is less than 5 miles, the customer is eligible for free delivery.

- If the distance is 5 miles or more, delivery is not free.