**📝 Day 4 – Home Assignments: Conditional Statements**

**🔹 Part A: Basic If/Else**

1. Ask the user for a number and:
   * Print "Even number" if divisible by 2
   * Otherwise, print "Odd number"
2. Ask the user to input age and check:
   * If age ≥ 18, print "Eligible to vote"
   * Else, print "Not eligible to vote"

**🔹 Part B: If-Elif-Else**

1. Ask the user to enter marks (0–100) and display grade:
   * 90–100: Grade A
   * 75–89: Grade B
   * 50–74: Grade C
   * Below 50: Fail
2. Take temperature as input and:
   * If temp > 35, print "Too Hot"
   * If 25–35, print "Normal Weather"
   * If 15–24, print "Cool"
   * Else, print "Too Cold"

**🔹 Part C: Nested If**

1. Take a number as input. Check if it is:
   * **Positive**
     + If yes, also check whether it is **greater than 100** or not
   * **Negative**
   * **Zero**

Example Output:

Number is positive and greater than 100

**🔹 Part D: Real-World Scenarios**

1. Ask for a username and password:
   * If both are correct → "Login successful"
   * If username is correct but password is wrong → "Wrong password"
   * If username is wrong → "User not found"
2. A shop gives discount:
   * Total bill < 500 → No discount
   * 500 to 1000 → 5% discount
   * Above 1000 → 10% discount  
     Take bill amount as input and display final amount to be paid.
3. Rock-Paper-Scissors game (two players):
   * Take input from both players
   * Compare:
     + Rock beats Scissors
     + Scissors beats Paper
     + Paper beats Rock
     + Same → Tie