**Task 2: Conditional Statements & Loops**

**Objective: Implement conditional statements and loops in Python.**

INSTRUCTIONS:

1. Write Python code using if-else statements to control the flow of execution based on specific conditions.
2. Use loops (for loop, while loop) to iterate over sequences and perform repetitive tasks.

Example Output: Python code demonstrating conditional statements and loops, along with comment

explaining the logic.

Deadline: This week

1. **Write Python code using if-else statements to control the flow of execution based on specific conditions.**

Solution:

*#1.  Write Python code using if-else statements to control the flow of execution based on specific conditions*

*#code:*

*# if-else statements*

x = 18

*if* x > 18:

    print("you are eligible to vote")

*else*:

    print("you are not eligible to vote")

*#2. Write Python code using if-elif-else statements to control the flow of execution based on multiple conditions*

*#code:*

*# if-elif-else statements*

    x = 18

*if* x > 18:

        print("you are eligible to vote")

*elif* x == 18:

        print("you just turned 18, congratulations!")

*else*:

        print("you are not eligible to vote")

*#3. Write Python code using a for loop to iterate over a sequence of elements*

*#code:*

*# for loop*

    fruits = ["apple", "banana", "cherry"]

*for* fruit *in* fruits:

        print(fruit)

*#4. Write Python code using a while loop to repeatedly execute a block of code until a condition is met*

*#code:*

*# while loop*

    count = 0

*while* count < 5:

        print("Count:", count)

        count += 1