Day 5: In-Class Assignment Questions (Control Flow & Loops)

1. Conditional Statements

- 1.1: Write a program to determine the grade of a student based on their marks (e.g., A for 90-100, B for 80-89, etc.). Use if-elif-else.

- 1.2: Create a program to check if a given number is within a specified range (e.g., between 10 and 20).

- 1.3: Implement a simple game of rock-paper-scissors using if-elif-else to determine the winner.

2. Loops

- 2.1: Write a program to print the first 15 multiples of a given number using a for loop.

- 2.2: Create a program to find the sum of all odd numbers between 1 and 50 using a while loop.

- 2.3: Write a program to print the Fibonacci sequence up to a certain limit using a while loop.

3. Loop Control Statements

- 3.1: Write a program to find the sum of all numbers in a list, excluding any negative numbers using the continue statement.

- 3.2: Create a program to search for a specific character in a string and print its index. Use the break statement to exit the loop once the character is found.

4. Ternary Operator

- 4.1: Write a program to check if a given number is even or odd using the ternary operator.

5. Case Statement (if available in your Python version)

- 5.1: Write a program to convert a month number (1-12) to its corresponding month name using the match-case statement.