5/4/25, 9:20 AM Program.cs

## 01\_DATA\_TYPES\05\_LOOP\_EXAMPLE\Program.cs

```
1
    using System;
 2
 3
    namespace _05_LOOP_EXAMPLE
 4
    {
 5
        class Program
 6
        {
 7
            static void Main(string[] args)
 8
 9
                Console.WriteLine("=== LOOP EXAMPLES ===");
10
11
                #region For Loop Example
                // The 'for' loop runs a block of code a known number of times.
12
13
                // Syntax: for (initialization; condition; increment)
                Console.WriteLine("\nFor Loop:");
14
                for (int i = 1; i <= 5; i++)
15
16
                {
                     Console.WriteLine("Iteration " + i);
17
18
19
                #endregion
20
21
                #region While Loop Example
                // The 'while' loop runs as long as the condition is true.
22
                // Useful when you don't know how many times the loop will run.
23
                Console.WriteLine("\nWhile Loop:");
24
25
                int count = 1;
26
                while (count <= 5)</pre>
27
                {
28
                     Console.WriteLine("Count is: " + count);
29
                     count++;
30
                }
                #endregion
31
32
                #region Do-While Loop Example
33
                // The 'do-while' loop is similar to 'while' but guarantees at least one
34
    execution.
                // It checks the condition after running the loop block.
35
                Console.WriteLine("\nDo-While Loop:");
36
                int num = 1;
37
38
                do
39
                 {
40
                     Console.WriteLine("Number is: " + num);
                     num++;
41
                 } while (num <= 5);</pre>
42
                #endregion
43
44
                #region Foreach Loop Example
45
                // The 'foreach' loop is used to iterate through elements in a collection or
46
    array.
                Console.WriteLine("\nForeach Loop:");
47
                 string[] fruits = { "Apple", "Banana", "Cherry" };
48
                 foreach (string fruit in fruits)
49
50
                 {
```