

7.3-While Loop

Program

```
public class WhileLoop1 {  
  
    public static void main(String[] args) {  
  
        int start = 5, end = 11;  
  
        while(start <= end){  
  
            checkMultipleOfThree(start);  
  
            start++;  
  
        }  
    }  
  
    public static void checkMultipleOfThree(int num) {  
  
        if(num % 3 == 0) {  
  
            Console.WriteLine(num + " is a multiple of 3");  
  
        }  
  
        else {  
  
            Console.WriteLine(num + " is not a multiple of 3");  
  
        }  
  
    }  
}
```

Exercise

Write a C# program that checks whether numbers within a given range are multiples of 3. Define a main method that initializes starting and ending values for the range.

Utilize a while loop to iterate through the numbers in the range and call a method named `checkMultipleOfThree` for each number.

Implement the `checkMultipleOfThree` method to determine whether a given number is a multiple of 3 and print appropriate messages to the console indicating the result.

Hint

It uses a while loop to iterate through the numbers in the range.

For each number, it calls the method `checkMultipleOfThree` to determine whether it's a multiple of 3 or not.

Explanation

checks numbers from 5 to 11, printing whether each number is a multiple of 3 or not. It iterates through the range using a while loop and calls the method `checkMultipleOfThree` to determine and print the result for each number.