```
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C# LAB 03

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1.
   using System;
   public class Program
     public static void Main(string[] args)
       // Declare a variable to store the user input number.
        int number;
       // Prompt the user to enter a number.
        Console.WriteLine("Enter a number: ");
        number = Convert.ToInt32(Console.ReadLine());
       // Check if the number is even or odd.
        if (number \% 2 == 0)
          Console.WriteLine("The number is even.");
        }
        else
          Console.WriteLine("The number is odd.");
        }
     }
2.
   using System;
   public class Program
     public static void Main(string[] args)
        // Declare a variable to store the user input string.
```

```
string stringInput;
    // Prompt the user to enter a string.
    Console.WriteLine("Enter a string: ");
    stringInput = Console.ReadLine();
    // Declare a variable to store the number of vowels.
    int vowelCount = 0;
    // Declare a set to store the vowels.
    string vowels = "aeiouAEIOU";
    // Iterate over the string and check if each character is a vowel.
    for (int i = 0; i < stringInput.Length; i++)
    {
      if (vowels.Contains(stringInput[i]))
      {
         vowelCount++;
      }
    }
    // Display the number of vowels.
    Console.WriteLine("The number of vowels in the string is {0}.", vowelCount);
  }
}
using System;
public class Program
  public static void Main(string[] args)
    // Declare a variable to store the user input number.
    int number;
    // Prompt the user to enter a number.
    Console.WriteLine("Enter a number: ");
    number = Convert.ToInt32(Console.ReadLine());
    // Initialize a variable to store the sum of the digits.
    int sum = 0;
```

3.

```
// Iterate over the number and add each digit to the sum.
        while (number > 0)
        {
          int digit = number % 10;
          sum += digit;
          number /= 10;
        }
       // Display the sum of the digits.
        Console.WriteLine("The sum of the digits is {0}.", sum);
     }
   }
4.
   using System;
   public class Program
     public static void Main(string[] args)
       // Declare a variable to store the user input number.
        int number;
       // Prompt the user to enter a number.
        Console.WriteLine("Enter a positive integer: ");
        number = Convert.ToInt32(Console.ReadLine());
        // Initialize a variable to store the sum of the odd numbers.
        int sum = 0;
       // Iterate over the odd numbers from 1 to the user input number and add them to the sum.
        for (int i = 1; i \le number; i += 2)
       {
          sum += i;
        }
        // Display the sum of the odd numbers.
        Console.WriteLine("The sum of the odd numbers is {0}.", sum);
     }
   }
```