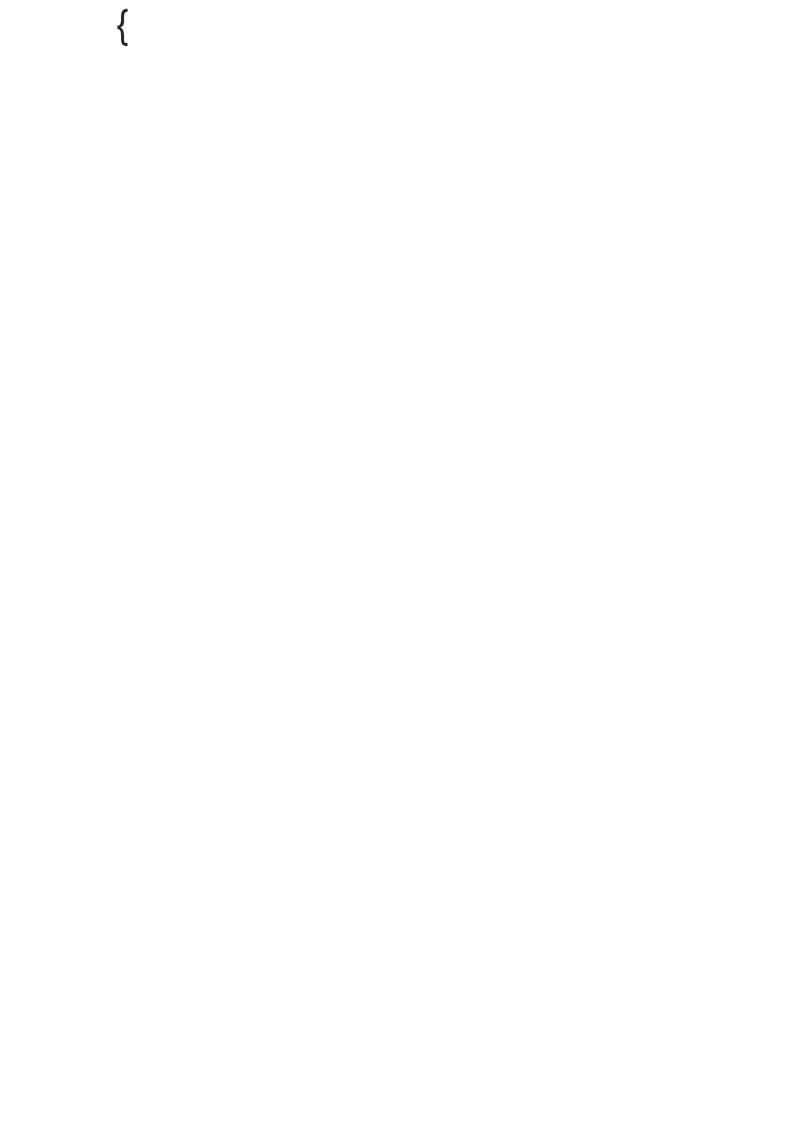
LAB 03

```
01.using System;
namespace EvenOrOdd
  class Program
     static void Main(string[] args)
       Console.WriteLine("Enter an
integer:");
       int number;
       // Read the input as a string
       string input =
Console.ReadLine();
       // Try parsing the input string to
an integer
       if (int.TryParse(input, out
number))
```



```
// Check if the number is even
or odd
          if (number \% 2 == 0)
             Console.WriteLine("Even");
          else
             Console.WriteLine("Odd");
       else
          Console.WriteLine("Invalid
input. Please enter a valid integer.");
```

```
02. using System;
namespace CountVowels
{
  class Program
     static void Main(string[] args)
       Console.WriteLine("Enter a
string:");
       string input =
Console.ReadLine();
       int vowelCount =
CountVowelsInString(input);
       Console.WriteLine($"Number of
vowels: {vowelCount}");
     static int CountVowelsInString(string
str)
```



```
int count = 0;
        string vowels = "AEIOUaeiou";
       // Loop through each character in
the string
        foreach (char c in str)
        \{
          // Check if the character is a
vowel
          if (vowels.Contains(c))
             count++;
        return count;
```

```
03.using System;
namespace SumOfDigits
{
  class Program
     static void Main(string[] args)
       Console.WriteLine("Enter a
number:");
       string input =
Console.ReadLine();
       if (int.TryParse(input, out int
number))
          int sumOfDigits =
CalculateSumOfDigits(number);
          Console.WriteLine($"Sum of
digits: {sumOfDigits}");
       else
```

```
Console.WriteLine("Invalid
input. Please enter a valid number.");
     static int CalculateSumOfDigits(int
number)
       int sum = 0;
       // Convert the number to a string
to access its digits
       string numberString =
number.ToString();
       // Loop through each digit and
add it to the sum
       for (int i = 0; i <
numberString.Length; i++)
```

```
char digitChar =
numberString[i];
          if (char.lsDigit(digitChar))
            // Convert the character digit
back to an integer
            int digit =
int.Parse(digitChar.ToString());
            sum += digit;
       return sum;
04. using System;
namespace SumOfOddNumbers
```

```
class Program
    static void Main(string[] args)
       Console.WriteLine("Enter a
positive integer:");
       string input =
Console.ReadLine();
       if (int.TryParse(input, out int
number) && number > 0)
          int sumOfOddNumbers =
CalculateSumOfOddNumbers(number);
          Console.WriteLine($"Sum of
odd numbers from 1 to {number}:
{sumOfOddNumbers}");
       else
          Console.WriteLine("Invalid
input. Please enter a valid positive
integer.");
```

```
static int
CalculateSumOfOddNumbers(int n)
     {
       int sum = 0;
       // Loop through numbers from 1
to n
       for (int i = 1; i <= n; i++)
          // Check if the number is odd
          if (i % 2 != 0)
             sum += i; // Add the odd
number to the sum
        return sum;
```

}	}			