

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.IsDigit(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;
```

```
}
```

}

}