## **Lab 03**

}

1. Write a C# program that takes an integer as input and checks whether it is even or odd. Display the result "Even" or "Odd" accordingly

```
using System;
namespace ConsoleApplication1
{
  class Program
  {
    static void Main(string[] args)
    {
      Console.WriteLine("Enter an integer: ");
      int number = int.Parse(Console.ReadLine());
      bool isEven = number % 2 == 0;
      string result = isEven ? "Even" : "Odd";
      Console.WriteLine("The number is " + result);
      Console.WriteLine("Press any key to continue...");
      Console.ReadKey();
    }
 }
```

2. Write a C# program that counts the number of vowels in a given string. Consider both uppercase and lowercase vowels.

```
using System;
namespace ConsoleApplication1
  class Program
    static void Main(string[] args)
    {
       Console.WriteLine("Enter a string: ");
       string str = Console.ReadLine();
       int vowelCount = 0;
      for (int i = 0; i < str.Length; i++)
       {
         char ch = str[i];
         if (ch == 'a' || ch == 'e' || ch == 'i' || ch == 'o' || ch == 'u' ||
           ch == 'A' || ch == 'E' || ch == 'I' || ch == 'O' || ch == 'U')
         {
           vowelCount++;
         }
```

```
}
      Console.WriteLine("The number of vowels in the string is " + vowelCount);
      Console.WriteLine("Press any key to continue...");
      Console.ReadKey();
}
}
3. Write a C# program to find the sum of the digits of a given number using a for loop.
using System;
namespace ConsoleApplication1
{
  class Program
    static void Main(string[] args)
    {
      Console.WriteLine("Enter a number: ");
      int number = int.Parse(Console.ReadLine());
      int sum = 0;
      while (number > 0)
```

```
{
        int digit = number % 10;
        sum += digit;
        number /= 10;
      }
      Console.WriteLine("The sum of the digits is " + sum);
      Console.WriteLine("Press any key to continue...");
      Console.ReadKey();
    }
 }
}
4. Write a C# program to calculate the sum of all the odd numbers from to a given positive
integer.
using System;
namespace ConsoleApplication1
{
  class Program
  {
    static void Main(string[] args)
    {
      Console.WriteLine("Enter a positive integer: ");
```

int number = int.Parse(Console.ReadLine());

```
int sum = 0;

for (int i = 1; i <= number; i += 2)
{
    sum += i;
}

Console.WriteLine("The sum of the odd numbers from 1 to " + number + " is " + sum);

Console.WriteLine("Press any key to continue...");

Console.ReadKey();
}
}</pre>
```