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 ConsoleApp18

{

internal class Program

{

static void Main(string[] args)

{

Console.Write("Enter an integer: ");

int number = Convert.ToInt32(Console.ReadLine());

if (number % 2 == 0)

{

Console.WriteLine("Even");

}

else

{

Console.WriteLine("Odd");

}

Console.ReadLine();

}

}

}

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

using System;

namespace ConsoleApp19

{

internal class Program

{

static void Main(string[] args)

{

Console.Write("Enter a string: ");

string input = Console.ReadLine();

int vowelCount = CountVowels(input);

Console.WriteLine("Number of vowels: " + vowelCount);

Console.ReadLine();

}

static int CountVowels(string input)

{

int count = 0;

string vowels = "aeiouAEIOU";

foreach (char c in input)

{

if (vowels.Contains(c))

{

count++;

}

}

return count;

}

}

}

3. Write a C# program to find the sum of the digits of a given number using a for loop.

using System;

namespace ConsoleApp20

{

internal class Program

{

static void Main(string[] args)

{

Console.Write("Enter a number: ");

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

int sum = 0;

for (int n = number; n != 0; n /= 10)

{

int digit = n % 10;

sum += digit;

}

Console.WriteLine("Sum of the digits: " + sum);

Console.ReadLine();

}

}

}

4. Write a C# program to calculate the sum of all the odd numbers from to a given positive integer.

using System;

namespace ConsoleApp21

{

internal class Program

{

static void Main(string[] args)

{

Console.Write("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("Sum of odd numbers: " + sum);

Console.ReadLine();

}

}

}