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**C# 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.

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

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

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

**Answers**

1. using System;

namespace EvenOddChecker

{

class Program

{

static void Main(string[] args)

{

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

if (number % 2 == 0)

{

Console.WriteLine("The number is even.");

}

else

{

Console.WriteLine("The number is odd.");

}

}

}

}

2.

using System;

namespace CountVowels

{

class Program

{

static void Main(string[] args)

{

string str = Console.ReadLine();

int vowelCount = 0;

char[] vowels = { 'a', 'e', 'i', 'o', 'u', 'A', 'E', 'I', 'O', 'U' };

for (int i = 0; i < str.Length; i++)

{

if (vowels.Contains(str[i]))

{

vowelCount++;

}

}

Console.WriteLine("The number of vowels in the string is {0}", vowelCount);

}

}

}

3.

using System;

namespace SumOfDigits

{

class Program

{

static void Main(string[] args)

{

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 {0}", sum);

}

}

}

4.

using System;

namespace SumOfOddNumbers

{

class Program

{

static void Main(string[] args)

{

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

int sum = 0;

for (int i = 1; i <= upperLimit; i += 2)

{

sum += i;

}

Console.WriteLine("The sum of the odd numbers is {0}", sum);

}

}

}