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.**

class Program

{

static void Main(string[] args)

{

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

string input = Console.ReadLine();

if (int.TryParse(input, out int number))

{

if (number % 2 == 0)

{

Console.WriteLine("Even");

}

else

{

Console.WriteLine("Odd");

}

}

else

{

Console.WriteLine("Invalid input. Please enter a valid integer.");

}

Console.ReadLine(); // This will pause the program until you press Enter key

}

}

}

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

class Program

{

static void Main(string[] args)

{

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

string input = Console.ReadLine().ToLower(); // Convert input to lowercase for case-insensitive counting

int vowelCount = 0;

foreach (char ch in input)

{

if ("aeiou".Contains(ch))

{

vowelCount++;

}

}

Console.WriteLine($"Number of vowels in the string: {vowelCount}");

Console.ReadLine(); // This will pause the program until you press Enter key

}

}

}

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

using System;

namespace SumOfDigitsCalculator

{

class Program

{

static void Main(string[] args)

{

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

string input = Console.ReadLine();

if (int.TryParse(input, out int number))

{

int sum = 0;

int temp = number;

while (temp > 0)

{

int digit = temp % 10;

sum += digit;

temp /= 10;

}

Console.WriteLine($"Sum of the digits: {sum}");

}

else

{

Console.WriteLine("Invalid input. Please enter a valid integer.");

}

Console.ReadLine();

}

}

}

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

class Program

{

static void Main(string[] args)

{

Console.WriteLine("Enter a positive integer:");

string input = Console.ReadLine();

if (int.Parse(input, out int number) && number > 0)

{

int sum = 0;

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

{

sum += i;

}

Console.WriteLine($"Sum of all odd numbers from 1 to {number}: {sum}");

}

else

{

Console.WriteLine("Invalid input. Please enter a valid positive integer.");

}

Console.ReadLine();

}

}

}