

C# Lab Tutorials

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Day 03

** Please Note that I'm typing out the answers in a word/pdf file and uploading it to github since I own an iPad and VSCode is not available on my device. Please excuse me and I apologize for any inconvenience caused. Thank you. **

- 01) 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 EvenOrOdd
- {
-     internal class Program
-     {
-         static void Main(string[] args)
-         {
-             Console.WriteLine("Enter the number: ");
-             int num = Convert.ToInt32(Console.ReadLine());
-             int rem = num % 2;
-
-             if (rem == 1)
-             {
-                 Console.WriteLine("{0} is an odd number", num);
-             }
-             else
-             {
-                 Console.WriteLine("{0} is an even number", num);
-             }
-
-             Console.ReadKey();
-         }
-     }
- }
```

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

```
- using System;
-
- namespace CountVowels
```

```

- {
-     class Program
-     {
-         static void Main(string[] args)
-         {
-             Console.WriteLine("Enter a string:");
-             string input = Console.ReadLine();
-
-             int vowelCount = CountVowels(input);
-             Console.WriteLine("Number of vowels in the string: " + vowelCount);
-         }
-
-         static int CountVowels(string str)
-         {
-             int count = 0;
-             string vowels = "aeiouAEIOU";
-
-             foreach (char c in str)
-             {
-                 if (vowels.Contains(c))
-                 {
-                     count++;
-                 }
-             }
-
-             return count;
-         }
-     }
- }

```

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

```

- namespace SumOfDigits
- {
-     internal class Program
-     {
-         static void Main(string[] args)
-         {
-             Console.WriteLine("Enter a value:");
-             int Num = int.Parse(Console.ReadLine());
-
-             int Sum = 0, Rem;
-             while (Num > 0)
-             {
-                 Rem = Num % 10;
-                 Sum += Rem;
-                 Num = Num / 10;
-             }
-             Console.WriteLine("Sum:" + Sum);
-             Console.ReadLine();
-         }
-     }
- }

```

```
- }
```

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

```
- using System;
- namespace SumOfOdds
- {
-     internal class Program
-     {
-         static void Main(string[] args)
-         {
-             Console.Write("Enter a positive integer: ");
-             if (int.TryParse(Console.ReadLine(), out int num) && num > 0)
-             {
-                 int sum = CalculateSumOfOddNumbers(num);
-                 Console.WriteLine("Sum of odd numbers from 1 to " + num + " is: " + sum);
-             }
-             else
-             {
-                 Console.WriteLine("Invalid input. Please enter a valid positive integer.");
-             }
-         }
-
-         static int CalculateSumOfOddNumbers(int num)
-         {
-             int sum = 0;
-
-             for (int i = 1; i <= num; i += 2)
-             {
-                 sum += i;
-             }
-
-             return sum;
-         }
-     }
- }
```