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## <u>27344</u>

## C# LAB 03

```
1.
   using System;
   public class Program
     public static void Main(string[] args)
       // Declare a variable to store the user input number.
       int number;
       // Prompt the user to enter a number.
   Console.WriteLine("Enter a number: ");
        number = Convert.ToInt32(Console.ReadLine());
       // Check if the number is even or odd.
   if (number % 2 == 0)
          Console.WriteLine("The number is even.");
       }
   else
          Console.WriteLine("The number is odd.");
       }
     }
2.
   using System;
   public class Program
     public static void Main(string[] args)
       // Declare a variable to store the user input string.
```

```
string stringInput;
    // Prompt the user to enter a string.
Console.WriteLine("Enter a string: ");
    stringInput = Console.ReadLine();
    // Declare a variable to store the number of vowels.
int vowelCount = 0;
    // Declare a set to store the vowels.
    string vowels = "aeiouAEIOU";
    // Iterate over the string and check if each character is a vowel.
    for (int i = 0; i < stringInput.Length; i++)
      if (vowels.Contains(stringInput[i]))
        vowelCount++;
    }
    // Display the number of vowels.
    Console.WriteLine("The number of vowels in the string is {0}.", vowelCount);
 }
}
using System;
public class Program
  public static void Main(string[] args)
    // Declare a variable to store the user input number.
    int number;
    // Prompt the user to enter a number.
Console.WriteLine("Enter a number: ");
    number = Convert.ToInt32(Console.ReadLine());
    // Initialize a variable to store the sum of the digits.
```

3.

```
int sum = 0;
    // Iterate over the number and add each digit to the sum.
while (number > 0)
    {
      int digit = number % 10;
      sum += digit;
      number /= 10;
    }
    // Display the sum of the digits.
    Console.WriteLine("The sum of the digits is {0}.", sum);
 }
}
using System;
public class Program
  public static void Main(string[] args)
    // Declare a variable to store the user input number.
    int number;
    // Prompt the user to enter a number.
    Console.WriteLine("Enter a positive integer: ");
number = Convert.ToInt32(Console.ReadLine());
    // Initialize a variable to store the sum of the odd numbers.
    int sum = 0;
   // Iterate over the odd numbers from 1 to the user input number and add them to the sum.
for (int i = 1; i <= number; i += 2)
    {
      sum += i;
    // Display the sum of the odd numbers.
    Console.WriteLine("The sum of the odd numbers is {0}.", sum);
  }
}
```

4.