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27082

Lab 03

1.

using System;

namespace evenoddcheck

{

class Program

{

static void Main(string[] args)

{

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

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

// Check if the number is even or odd

if (number % 2 == 0)

{

Console.WriteLine("Even");

}

else

{

Console.WriteLine("Odd");

}

}

}

```
}
```

2.

```
using System;
```

```
namespace VowelCounter
```

```
{
```

```
    class Program
```

```
    {
```

```
        static void Main()
```

```
        {
```

```
            Console.WriteLine("Please enter a string:");
```

```
            string input = Console.ReadLine();
```

```
            string lowercaseInput = input.ToLower();
```

```
            int vowelCount = 0;
```

```
            string vowels = "aeiou";
```

```
            foreach (char "ch" in lowercaseInput)
```

```
            {
```

```
                if (vowels.Contains(ch))
```

```
                {
```

```
                    vowelCount++;
```

```
                }
```

```
            }
```

```

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

```

3.

```
using System;
```

```
namespace SumOfDigits
```

```
{
```

```
    class Program
```

```
    {
```

```
        static void Main()
```

```
        {
```

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

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

```
            int sumOfDigits = 0;
```

```
            int tempNumber = Math.Abs(number); // Ensure we work with the absolute value of the
number
```

```
            while (tempNumber > 0)
```

```
            {
```

```
                int digit = tempNumber % 10; // Get the rightmost digit
```

```
                sumOfDigits += digit; // Add the digit to the sum
            }
        }
    }
}
```

```

        tempNumber /= 10; // Remove the rightmost digit from the number
    }

    Console.WriteLine($"The sum of digits of the number is: {sumOfDigits}");
}
}
}

```

4.

```
using System;
```

```
namespace SumOfOddNumbers
```

```

{
    class Program
    {
        static void Main()
        {
            Console.WriteLine("Enter a positive integer:");
            int n = int.Parse(Console.ReadLine());

            int sumOfOddNumbers = 0;
            for (int i = 1; i <= n; i += 2)
            {
                sumOfOddNumbers += i;
                n = n+1
            }
        }
    }
}

```

```
        Console.WriteLine("The sum of all odd numbers from 1 to {n} is: {sumOfOddNumbers}");  
    }  
}  
}
```