

BRH Punchihewa

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C# lab 03

1. static void Main(string[] args)

```
{  
    Console.WriteLine("Enter an integer");  
    int number=Convert.ToInt32(Console.ReadLine());  
  
    if (IsEven(number))  
    {  
        Console.WriteLine(number + " is an even number");  
    }  
    else  
    {  
        Console.WriteLine(number + " is an odd number");  
    }  
    Console.ReadLine();  
  
}  
  
static bool IsEven(int number)  
{  
    return number % 2 == 0;  
}
```

2. static void Main(string[] args)

```
{  
    Console.WriteLine("Enter a string:");  
    string input = Console.ReadLine();  
  
    int vowelCount = CountVowels(input);  
  
    Console.WriteLine($"Number of vowels: {vowelCount}");  
}
```

```
static int CountVowels(string input)
```

```
{  
    int count = 0;  
    string vowels = "AEIOUaeiou";
```

```
    foreach (char c in input)
```

```
    {  
        if (vowels.Contains(c))
```

```
        {  
            count++;
```

```
        }
```

```
    }
```

```
    return count;
```

```
}
```

```
3. static void Main(string[] args)
```

```
{  
    Console.WriteLine("Enter a number:");  
    int number = int.Parse(Console.ReadLine());  
  
    int sum = CalculateSumOfDigits(number);  
  
    Console.WriteLine($"Sum of digits: {sum}");  
    Console.ReadLine();  
}
```

```
static int CalculateSumOfDigits(int number)  
{  
    int sum = 0;  
  
    for (; number != 0; number /= 10)  
    {  
        int digit = number % 10;  
        sum += digit;  
    }  
  
    return sum;  
}
```

4. static void Main(string[] args)

```
{  
    Console.WriteLine("Enter a positive integer:");  
    int number = int.Parse(Console.ReadLine());  
  
    int sum = CalculateSumOfOddNumbers(n);  
  
    Console.WriteLine($"Sum of odd numbers from 1 to {n}: {sum}");  
    Console.ReadLine();  
}
```

```
static int CalculateSumOfOddNumbers(int number)  
{  
    int sum = 0;  
  
    for (int i = 1; i <= n; i += 2)  
    {  
        sum += i;  
    }  
  
    return sum;  
}
```