# C# Data Types

A complete detail of C# data types are mentioned below:

*Value Types:*

| Data Types | Size | Values |
|---|---|---|
| sbyte | 8 bit | -128 to 127 |
| byte | 8 bit | 0 to 255 |
| short | 16 bit | -32,768 to 32,767 |
| ushort | 16 bit | 0 to 65,535 |
| int | 32 bit | -2,147,483,648 to 2,147,483,647 |
| uint | 32 bit | 0 to 4,294,967,295 |
| long | 64 bit | -9,223,372,036,854,775,808 to 9,223,372,036,854,775,807 |
| ulong | 64 bit | 0 to 18,446,744,073,709,551,615 |
| char | 16 bit | 0 to 65535 |
| float | 32 bit | -1.5 x 1045 to 3.4 x 1038 |
| double | 64 bit | -5 x 10324 to 1.7 x 10308 |
| decimal | 128 bit | -1028 to 7.9 x 1028 |
| bool | --- | True or false |

*Reference Types:*

| Data Types | Size | Values |
|---|---|---|
| string | Variable length | 0-2 billion Unicode characters |
| object | --- | --- |

```
num1 = Int32.Parse(Console.ReadLine());

Integer = int32.parse() or Convert.ToInt32()
Float= (float)
Double=Convert.ToDouble()
Decimal=Convert.ToDecimal()
Byte=Convert.ToByte()
```
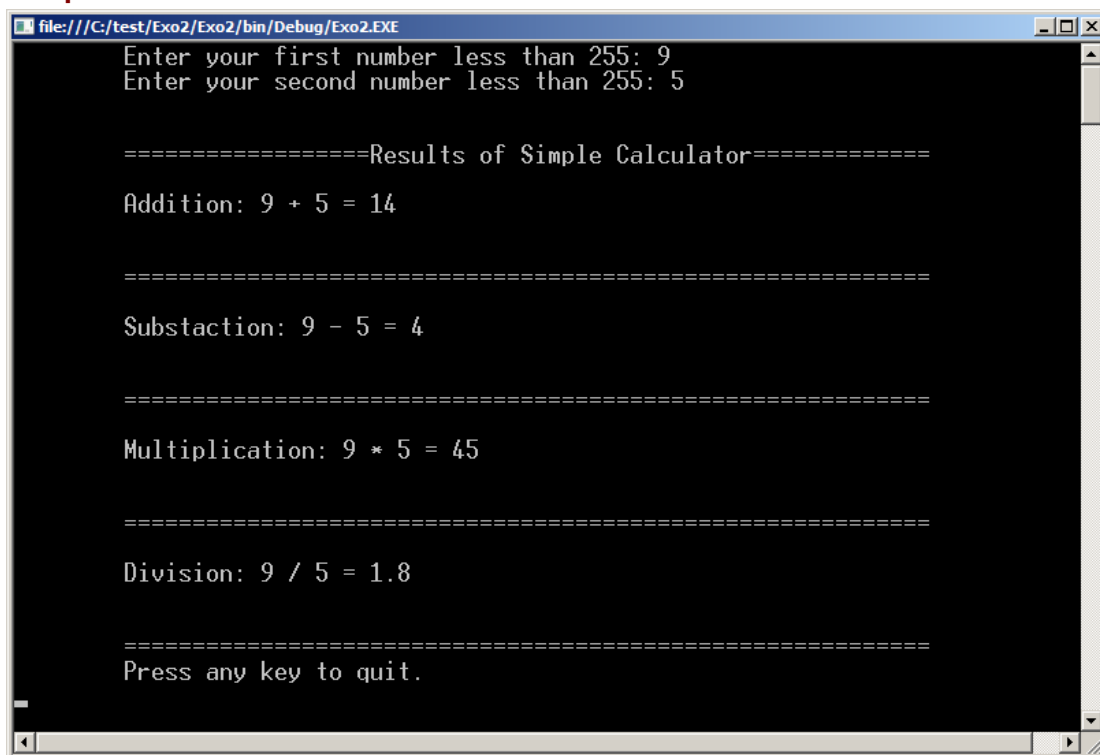
# Exercise 2

**Objective**

You will do some programming exercises of variables and data types in C#. It will help you to improve your programming skills in using **variables and data types in C#**.

**Q2:** Write a program to display results of the basic arithmetical operation. Accept 2 numerical entries, and store all the values in the appropriate variable data types and then calculate and print all the information of the 4 operations (add, sub mul, and div) in correct format on console.

Use the conversion for the 2 entries as **byte** data type and for the result as **float** data type.

**Output:**

```
file:///C:/test/Exo2/Exo2/bin/Debug/Exo2.EXE
        Enter your first number less than 255: 9
        Enter your second number less than 255: 5


        ==================Results of Simple Calculator=============

        Addition: 9 + 5 = 14


        ==========================================================

        Substaction: 9 - 5 = 4


        ==========================================================

        Multiplication: 9 * 5 = 45


        ==========================================================

        Division: 9 / 5 = 1.8


        ==========================================================
        Press any key to quit.
```

Identify yourself and the work in each .cs file.

Send your. cs file(s) by LEA of Omnivox

Thank you