International University of Business Agriculture and Technology

Lab Report 03

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Course   : CSC 440

Section   : A

Semester   : Fall 2022

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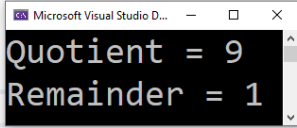E-mail   : hassan20203020@gmail.com

Submitted to

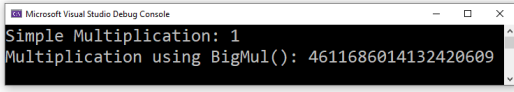Rashedul Islam

Senior lecturer

Date: 28-09-2022

```csharp
using System;

namespace l03_01
{
    class Program
    {
        static void Main(string[] args)
        {
            int re, ra;
            ra = Math.DivRem(37,4, out re);
            Console.WriteLine("Quotient = "+ra+"\nRemainder = "+re);
        }
    }
}
```
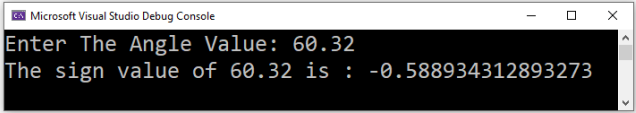
Microsoft Visual Studio D...

```
Quotient = 9
Remainder = 1
```

```csharp
using System;
namespace l03_02
{
    class Program
    {
        static void Main(string[] args)
        {
            int mint1 = Int32.MaxValue, mint2 = Int32.MaxValue;
            long sr1, sr2;
            sr1 = mint1 * mint2;
            sr2 = Math.BigMul(mint1,mint2);
            Console.WriteLine("Simple Multiplication: "+sr1+ "\nMultiplication using BigMul(): " + sr2);
        }
    }
}
```
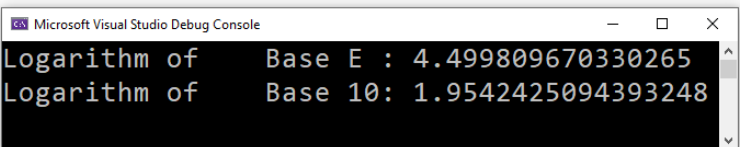
Microsoft Visual Studio Debug Console

```
Simple Multiplication: 1
Multiplication using BigMul(): 4611686014132420609
```

```csharp
using System;
namespace l03_03
{
    class Program
    {
        static void Main(string[] args)
        {
            Console.Write("Enter The Angle Value: ");
            double ang = double.Parse(Console.ReadLine());
            Console.WriteLine("The sign value of "+ang+" is : "+Math.Sin(ang));
        }
    }
}
```

```
Microsoft Visual Studio Debug Console
Enter The Angle Value: 60.32
The sign value of 60.32 is : -0.588934312893273
```

```csharp
using System;
namespace l03_04
{
    class Program
    {
        static void Main(string[] args)
        {
            double loga1, loga2;
            loga1 = Math.Log(90);
            loga2 = Math.Log(90, 10);
            Console.WriteLine("Logarithm of Base E : " + loga1);
            Console.WriteLine("Logarithm of Base 10: " + loga2);
        }
    }
}
```
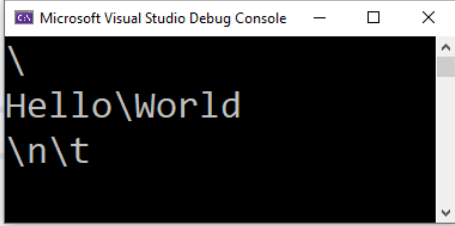
```
Microsoft Visual Studio Debug Console
Logarithm of    Base E : 4.499809670330265
Logarithm of    Base 10: 1.9542425094393248
```

```csharp
using System;
namespace l03_05
{
    class Program
    {
        static void Main(string[] args)
        {
            Console.WriteLine("\\");
            Console.WriteLine("Hello\\World");
            Console.WriteLine("\\n\\t");
        }
    }
}
```
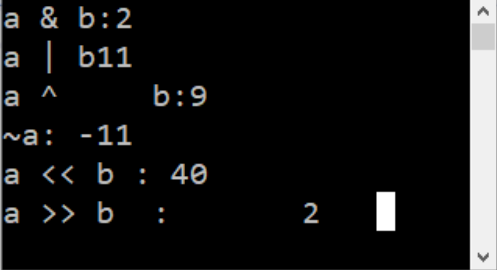
Microsoft Visual Studio Debug Console

```
\
Hello\World
\n\t
```

Select Microsoft Visual Stu...   — □ ∧   .Program

```
a & b:2
a | b11
a ^        b:9
~a: -11
a << b : 40
a >> b  :          2
```

```csharp
using System;
namespace l03_06
{
    class Program
    {
        static void Main(string[] args)
        {
            int a=10, b=3, result=0;
            result = a & b;
            Console.WriteLine("a & b:"+result);
            result = a | b;
            Console.WriteLine("a | b"+result);
            result = a ^ b;
            Console.WriteLine ("a ^ b:"+result);
            result = ~a;
            Console.WriteLine ("~a: "+result);
            result = a << 2;
            Console.WriteLine("a << b : "+result);
            result = a >> 2;    //1010>>2 = 0010 = 2
            Console.WriteLine ("a >> b  :   {0}", result);

        }
    }
}
```
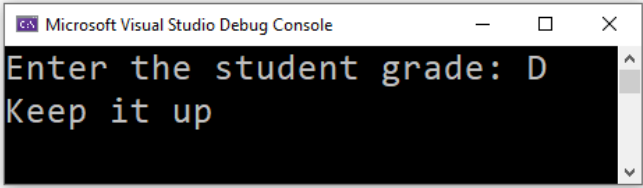
```csharp
1    using System;
2    namespace l03_07
3    {
         // 0 references
4        class Program
5        {
             // 0 references
6            static void Main(string[] args)
7            {
8                char student_grade;
9                Console.Write("Enter the student grade: ");
10               student_grade = Convert.ToChar(Console.ReadLine());
11               switch (student_grade)
12               {
13                   case 'A': Console.WriteLine("Excellent"); break;
14                   case 'B': Console.WriteLine("Very Good"); break;
15                   case 'C': Console.WriteLine("Good"); break;
16                   case 'D': Console.WriteLine("Keep it up"); break;
17                   case 'E': Console.WriteLine("Poor"); break;
18                   case 'F': Console.WriteLine("Very Poor"); break;
19                   default: Console.WriteLine("Invalid Gread"); break;
20               }
21           }
22       }
23   }
```
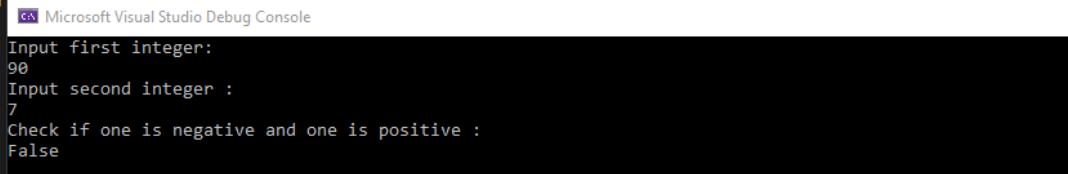
Microsoft Visual Studio Debug Console

```
Enter the student grade: D
Keep it up
```

```csharp
namespace lab_003
{
    // 0 references
    class Program
    {
        // 0 references
        static void Main(string[] args)

        {
            Console.WriteLine("Input first integer:");
            int x = Convert.ToInt32(Console.ReadLine());
            Console.WriteLine("Input second integer :");
            int y = Convert.ToInt32(Console.ReadLine());
            Console.WriteLine("Check if one is negative and one is positive : ");
            Console.WriteLine((x < 0 && y > 0) || (x > 0 && y < 0));
        Console.ReadKey();



        }

    }
}
```
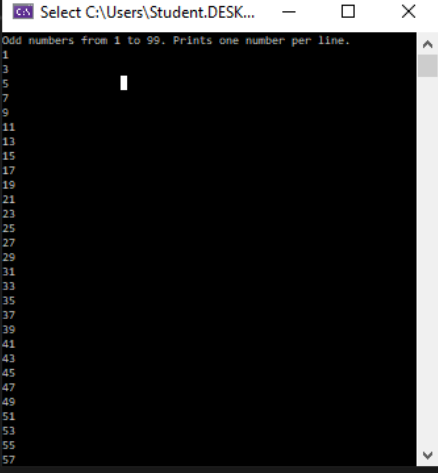
Microsoft Visual Studio Debug Console

```
Input first integer:
90
Input second integer :
7
Check if one is negative and one is positive :
False
```

```csharp
using System;

namespace lab_003
{
    0 references
    class Program
    {
        0 references
        static void Main(string[] args)

        {
            Console.WriteLine("Odd numbers from 1 to 99. Prints one number per line." );
            for (int n= 1; n < (99+1); n++)
            {
                if ( n % 2 != 0)
                {
                    Console.WriteLine(n.ToString());
                }
            }

            Console.ReadKey();


        }

    }
}
```
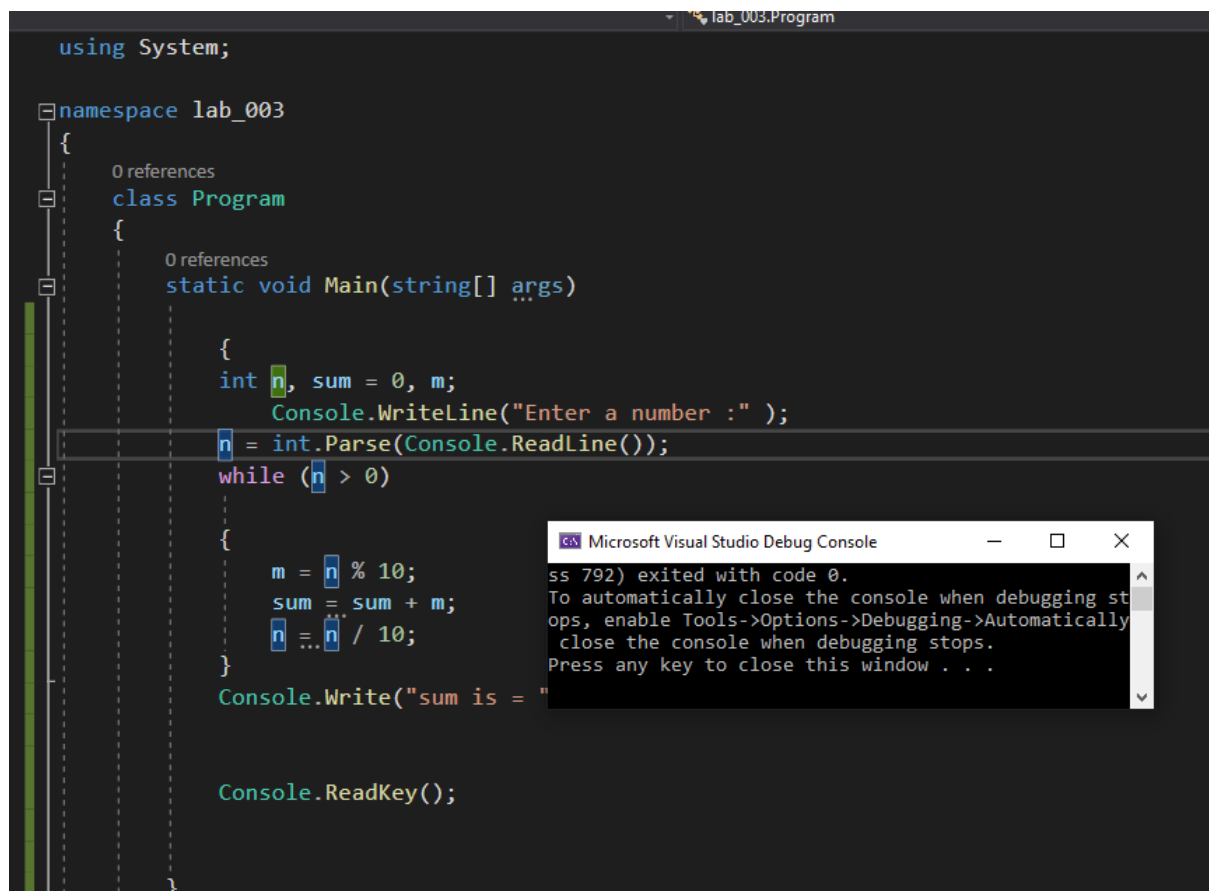
Select C:\Users\Student.DESK...

```
Odd numbers from 1 to 99. Prints one number per line.
1
3
5
7
9
11
13
15
17
19
21
23
25
27
29
31
33
35
37
39
41
43
45
47
49
51
53
55
57
```

```
lab_003.Program

using System;

namespace lab_003
{
    0 references
    class Program
    {
        0 references
        static void Main(string[] args)

        {
        int n, sum = 0, m;
            Console.WriteLine("Enter a number :" );
        n = int.Parse(Console.ReadLine());
        while (n > 0)

        {
            m = n % 10;
            sum = sum + m;
            n = n / 10;
        }
        Console.Write("sum is = "

        Console.ReadKey();

        }
```

Microsoft Visual Studio Debug Console   —   □   ✕

```
ss 792) exited with code 0.
To automatically close the console when debugging st
ops, enable Tools->Options->Debugging->Automatically
 close the console when debugging stops.
Press any key to close this window . . .
```