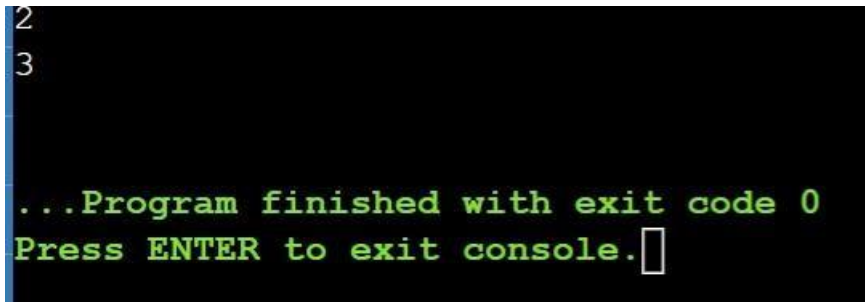


**2100030522**

**Syed Hasif Alisha**

1.Sum of n natural numbers using System; class

```
HelloWorld {  
    static void Main() {    int n =  
Convert.ToInt32(Console.ReadLine());  
    Console.WriteLine(n*(n+1)/2);  
    }  
}
```



```
2  
3  
  
...Program finished with exit code 0  
Press ENTER to exit console.
```

2.Swapping of 2 numbers

```
using System; class HelloWorld {    static void  
Main() {    int a =  
Convert.ToInt32(Console.ReadLine());    int b =  
Convert.ToInt32(Console.ReadLine());  
    a = a^b;  
    b = a^b;  
    a = a^b;  
    Console.WriteLine(a+" "+b);  
    }  
}
```

```
10
20
20 10
```

### 3. Sum of digits of a given

```
using System; class HelloWorld { static void
Main() { int n =
Convert.ToInt32(Console.ReadLine());
    int s =0;
while(n>0)
{
    int r = n%10;
s = s+r;    n =
n/10;
}
    Console.WriteLine(s);
}
}
```

```
55
10
```

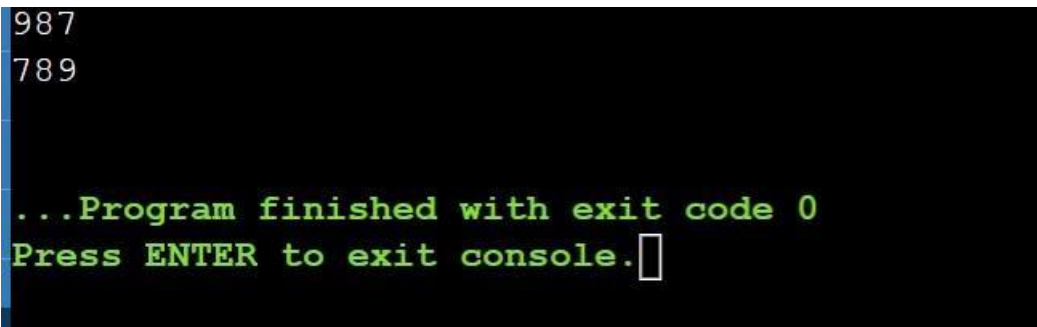
### 4. REVERSE NUMBER

```
using System;
class HelloWorld {
static void Main() {
int n =
```

```

Convert.ToInt32(C
onsole.ReadLine())
;
    int rev =0;
while(n>0)
{
    int r = n%10;
rev = rev*10+r;    n
= n/10;
}
    Console.WriteLine(rev);
}
}

```



```

987
789

...Program finished with exit code 0
Press ENTER to exit console.

```

## 5. LEAP YEAR

```

using System;

class HelloWorld {
static void Main()
{
    int n = Convert.ToInt32(Console.ReadLine());    if(n%4==0)
    {
        if(n%100==0)
        {
            if(n%400==0)

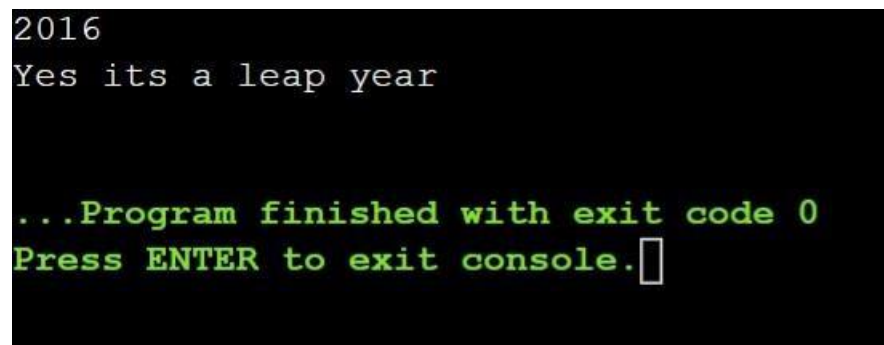
```

```

        {
            Console.WriteLine("Yes its a leap year");
        }
        else{
            Console.WriteLine("No its a leap year");
        }
    }
    Console.WriteLine("Yes its a leap year");
}
else{
    Console.WriteLine("No its a leap year");
}

}
}

```



```

2016
Yes its a leap year

...Program finished with exit code 0
Press ENTER to exit console.

```

## 6. Factors of N using

```

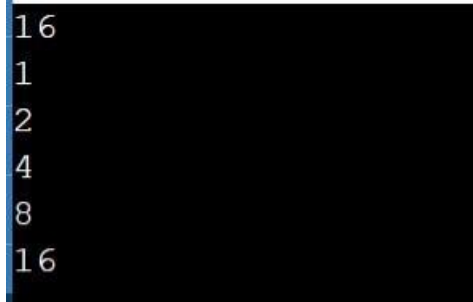
System.Collections.Generic; using System;
class HelloWorld { static void Main() { int
n = Convert.ToInt32(Console.ReadLine());
List<int> l = new List<int>();
for(int i=1;i<n;i++)
{
    if(n%i==0)
    {
        l.Add(i);
    }
}
}
}

```

```

    }
}
if(n>1)
{
    l.Add(n);
}
foreach (int number in l)
{
    Console.WriteLine(number);
}
}
}

```



```

16
1
2
4
8
16

```

## 7.Reverse String

using System; class

Reverse

```

{
    static void Main(string[] args)
    {
        string str = Console.ReadLine();
        char[] stringArray = str.ToCharArray();
        Array.Reverse(stringArray);
        string
        reversedStr = new string(stringArray);
        Console.Write($"Actual String is : {str} \n");
        Console.Write($"Reversed String is : {reversedStr} ");
    }
}

```

```
}  
}
```

## 8.Uppercase to lower case

```
using System; class  
Reverse  
{  
    static void Main(string[] args)  
    {  
        string str = Console.ReadLine();  
        Console.Write(str.ToLower());  
    }  
}
```

## 9. Celsius to Fahrenheit Conversion

```
using System; using  
System.Collections.Generic; using  
System.Linq; using System.Text;
```

```
namespace Demo {  
  
    class MyApplication {        static void Main(string[] args) {  
double fahrenheit;        double celsius =  
Convert.ToDouble(Console.ReadLine());  
Console.WriteLine("Celsius: " + celsius);        fahrenheit =  
(celsius * 9) / 5 + 32;  
        Console.WriteLine("Fahrenheit: " + fahrenheit);  
    }  
}
```

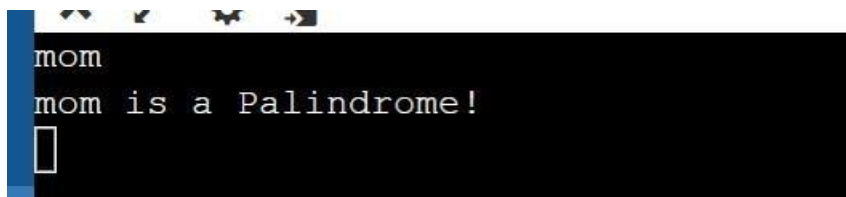
```
}  
}  
}
```

```
50  
Celsius: 50  
Fahrenheit: 122  
  
...Program finished with exit code 0  
Press ENTER to exit console.□
```

#### 10. String palindrome or not

```
using System; namespace  
palindromecheck  
{  
    class Program {    static void  
Main(string[] args) {    string  
string1, rev; string1 =  
Console.ReadLine();    char[]  
ch = string1.ToCharArray();  
Array.Reverse(ch);    rev =  
new string(ch);  
  
    bool b = string1.Equals(rev, StringComparison.OrdinalIgnoreCase);  
    if (b == true) {  
        Console.WriteLine("'" + string1 + " is a Palindrome!");  
    } else {  
        Console.WriteLine("'" + string1 + " is not a Palindrome!");  
    }  
    Console.Read();  
}
```

```
}  
}
```



#### 11. Count vowels using System;

```
public class Demo {  
    public static void Main() {  
        string myStr;    int i, len,  
        vowel_count;    myStr =  
        Console.ReadLine();  
        vowel_count = 0;  
        len = myStr.Length;    for(i=0;  
        i<len; i++) {  
            if(myStr[i] == 'a' || myStr[i] == 'e' || myStr[i] == 'i' || myStr[i] == 'o' || myStr[i] == 'u' || myStr[i] == 'A'  
            || myStr[i] == 'E' || myStr[i] == 'I' || myStr[i] == 'O' || myStr[i] == 'U') {  
                vowel_count++;  
            }  
        }  
        Console.WriteLine("Vowels in the string: {0} ", vowel_count);  
    }  
}
```

#### 12.

```
using System; class  
MultiplicationTable  
{  
    static void Main()  
    {
```



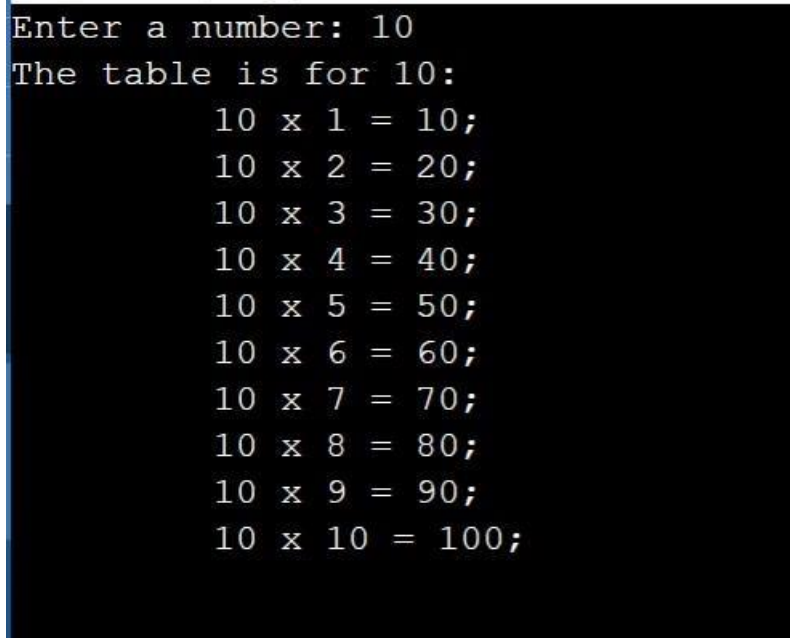
```

        Console.WriteLine("Enter a number: ");    int
number = Convert.ToInt32(Console.ReadLine());
Console.WriteLine($"The table is for {number}:");

    for (int i = 1; i <= 10; i++)
    {
        int result = number * i;

        Console.WriteLine($"{number} x {i} = {result};");
    }
}
}

```



```

Enter a number: 10
The table is for 10:
    10 x 1 = 10;
    10 x 2 = 20;
    10 x 3 = 30;
    10 x 4 = 40;
    10 x 5 = 50;
    10 x 6 = 60;
    10 x 7 = 70;
    10 x 8 = 80;
    10 x 9 = 90;
    10 x 10 = 100;

```

13. ASCII character using System;

```

using System.Collections.Generic; using
System.Linq;
using System.Text.RegularExpressions;

```

```

namespace HelloWorld

```

```

{
    public class Program
    {
        public static void Main(string[] args)
        {
            string str=Console.ReadLine();
foreach(char item in str)
            {
                Console.WriteLine((int)item);
            }
        }
    }
}

```

#### 14.Prime Number or Not

```

using System;
namespace Demo {
    class MyApplication {    public static void
Main() {    int n =
Convert.ToInt32(Console.ReadLine());
        int a = 0;
        for (int i = 1; i <= n; i++) {            if
(n % i == 0) {
            a++;
        }
    }
    if (a == 2) {
        Console.WriteLine("{0} is a Prime Number", n);
    }
}
}

```

```

    } else {
        Console.WriteLine("Not a Prime Number");
    }
    Console.ReadLine();
}
}
}

```



24  
Not a Prime Number  
█

## 15. Odering of Array Elements

```

using System; class
Program
{
    static void Main()
    {
        // Prompt the user to enter the length of the array
        Console.Write("Enter the length of the array: ");    if
(!int.TryParse(Console.ReadLine(), out int length) || length <= 0)
        {
            Console.WriteLine("Invalid input. Please enter a positive integer for the length of the array.");
            return; }

        int[] array = new int[length];

        Console.WriteLine("Enter the elements of the array:");
        for (int i = 0; i < length; i++)
        {
            Console.Write($"Element {i + 1}: ");    if
(!int.TryParse(Console.ReadLine(), out array[i]))

```

```

        {
            Console.WriteLine("Invalid input. Please enter an integer.");
i--; // Repeat this iteration to re-prompt for the same index
        }
    }
    Array.Sort(array);
    Console.WriteLine("\nSorted array:");    foreach
(int element in array)
    {
        Console.Write($"{element} ");
    }
}

```

```

Enter the length of the array: 5
Enter the elements of the array:
Element 1: 13
Element 2: 4
Element 3: 5
Element 4: 6
Element 5: 5

Sorted array:
4 5 5 6 13

```