DOT NET LAB

Practical – 4

LOOPING STRUCTURES

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Program 1 - Write a program in C# to reverse a string.

```
//program 1
string myStr, rev;
myStr = "Gohar";
rev = "";
Console.WriteLine("String is {0}", myStr);
int len;
len = myStr.Length - 1;
while (len >= 0)
{
    rev = rev + myStr[len];
    len--;
}
Console.WriteLine("Reversed String is {0}", rev);
Console.ReadLine();
```

```
C:\Users\intel\source\repos\ConsoleApp1\ConsoleApp1\bin\Debug\ConsoleApp1.exe
String is Gohar
Reversed String is rahoG
```

Program 2 - Write a program in C# to read 10 numbers and find their sum and average.

```
//program 2
int i, n, sum = 0;
double avg;
Console.Write("Input the 10 numbers : \n");
for (i = 1; i <= 10; i++)
{
    Console.Write("Number-{0} :", i);

    n = Convert.ToInt32(Console.ReadLine());
    sum += n;
}
avg = sum / 10.0;
Console.Write("The sum of 10 no is : {0}\nThe Average is : {1}\n", sum, avg);
Console.ReadLine();
```

```
C:\Users\intel\source\repos\ConsoleApp1\ConsoleApp1\bin\Debug\ConsoleApp1.exe
Input the 10 numbers :
Number-1 :45
Number-2 :15
Number-3 :17
Number-4 :18
Number-5 :12
Number-6 :11
Number-7 :10
Number-8 :89
Number-9 :45
Number-10 :13
The sum of 10 no is : 275
The Average is : 27.5
```

Program 3 - Write a program in C# to make such a pattern like a pyramid with numbers increased by 1.

```
//program3
int i, j, dig, num, k, t = 1;
Console.Write("enter a number of lines for pyramid : ");
num = Convert.ToInt32(Console.ReadLine());
dig = num + 4 - 1;
for (i = 1; i <= num; i++)
{
    for (k = dig; k >= 1; k--)
    {
        Console.Write(" ");
    }
    for (j = 1; j <= i; j++)
        Console.Write("{0} ", t++);
    Console.Write("\n");
    dig--;
}
Console.ReadLine();
```

```
C:\Users\intel\source\repos\ConsoleApp1\ConsoleApp1\bin\Debug\ConsoleApp1.exe
enter a number of lines for pyramid : 6
         1
        2 3
       4 5 6
      7 8 9 10
     11 12 13 14 15
    16 17 18 19 20 21
```

Program 4 - Write a C# program to read the value of an integer m and display the value of n is 1 when m is larger than 0, 0 when m is 0 and -1 when m is less than 0.

```
//program4
int dayno;
Console.Write("Enter Day No : ");
dayno = Convert.ToInt32(Console.ReadLine());

switch (dayno)
{
    case 1:
        Console.Write("Monday \n");
        break;
    case 2:
        Console.Write("Tuesday \n");
        break;
    case 3:
        Console.Write("Wednesday \n");
        break;
    case 4:
        Console.Write("Thursday \n");
        break;
    case 5:
        Console.Write("Friday \n");
        break;
    case 6:
        Console.Write("Saturday \n");
        break;
    case 7:
        Console.Write("Sunday  \n");
        break;
    default:
        Console.Write("Invalid day number. \nPlease try again ....\n");
        break;
}
Console.ReadLine();
```

```
C:\Users\intel\source\repos\ConsoleApp1\ConsoleApp1\bin\Debug\ConsoleApp1.exe
Enter Day No : 5
Friday
```

Program 5 - Write a program in C# to read any day number in integer and display day name in the word.

```
//progarm5
int m, n;
Console.Write("Input the  value of m :");
m = Convert.ToInt32(Console.ReadLine());
if (m != 0)
    if (m > 0)
        n = 1;
    else
        n = -1;
else
    n = 0;
Console.Write("The value of m = {0} \n", m);
Console.Write("The value of n = {0} \n\n", n);
Console.ReadLine();
```

```
C:\Users\intel\source\repos\ConsoleApp1\ConsoleApp1\bin\Debug\ConsoleApp1.exe
Input the  value of m :-9
The value of m = -9
The value of n = -1
```