ASSIGNMENT NO 2:

Assignment Of:

Game developement

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Question#01

Print Positive Number

Solution:

```
using System;
namespace Assignment2_1{
  class PositiveNumber{
    static void Main(string[] args){
        int number;
        Console.WriteLine("Enter a number");
        number = Convert.ToInt32(Console.ReadLine());
        if (number > 0){Console.WriteLine("This Number is Positive");}
        else if (number < 0){Console.WriteLine("This Number is negative");}
        else{Console.WriteLine("This Number is zero");}
        Console.WriteLine("By Rimsha Bilal");
        Console.ReadLine();
    }
}</pre>
```

OUTPUT:

```
■ file:///c/users/rimsha bilal/documents/visual studio 2013/Projects/ConsoleApplication1/ConsoleApplication1/bin/Debug/ConsoleApplication1.EXE — X

Enter a number 6

This Number is Positive 83y Rimsha Bilal
```

Question#02

Display number with its Reverse Order

Solution:

```
using System;
namespace ReverseOrder{
 class Program{
    static void Main(string[] args){
      int number, reminder;
      Console.WriteLine("Enter a number");
      number = Convert.ToInt32(Console.ReadLine());
      int reverse = 0;
      while(number!=0){
       reminder = number%10;
       reverse=reverse*10+reminder;
        number=number/10;
      }
      Console.WriteLine("Reversed Number is reverse:{0}", reverse);
          Console.WriteLine("By Rimsha Bilal");
      Console.ReadLine();
```

OUTPUT:



Question#03

Display Binary Triangle

Solution:

```
using System;
namespace PrintBinaryTriangle{
  class Program{
    static void Main(string[] args){
      int length;
      Console.WriteLine("Enter length of triangle");
      length = Convert.ToInt32(Console.ReadLine());
      for (int i = 0; i <= length; i++){
         for (int j = 0; j <= i; j++){
           if ((i+j) % 2 == 0) { Console.Write("1"); }
           else { Console.Write("0"); }
         Console.WriteLine();
           Console.WriteLine("By Rimsha Bilal");
      Console.ReadLine();
    }
  }
```

OUTPUT:

```
■ file:///c:/users/rimsha bilal/documents/visual studio 2013/Projects/ConsoleApplication1/ConsoleApplication1/bin/Debug/ConsoleApplication1.EXE — XEnter length of triangle
4
1
01
101
0101
By Rimsha bilal
```

Question#04

Print Diamond Using nested loop

Solution:

```
using System;
namespace DiamondUsingNestedLoop{
  class Program{
    static void Main(string[] args){
      int length;
      Console.WriteLine("Enter length of diamond");
```

```
length = Convert.ToInt32(Console.ReadLine());
    for (int i = 0; i \le length; i++){
       for (int s = length; s >= i; s--) {
                       Console.Write(" ");
       for (int j = 0; j \le (2 * i); j++){
         Console.Write("*");
       Console.WriteLine();
    int count = 1;
    for (int i = 0; i <= length-1; i++){
       for (int s = 0; s \le count; s++) {
         Console.Write(" ");
       }
       count++;
       for (int j =1; j <= 2 *(length-i) - 1; j++){
         Console.Write("*");
       }
       Console.WriteLine();
         Console.WriteLine("By Rimsha Bilal");
    Console.ReadLine();
  }
}
```

OUTPUT:

Question#05

Merge two arrays of same size sorted in ascending order

Solution:

```
using System;
namespace MergeTwoArrays
  class Program
    static void Main(string[] args)
       Console.WriteLine("Enter length of arrays");
       n = Convert.ToInt32(Console.ReadLine());
      int[] array1 = new int[n];
      int[] array2 = new int[n];
       int length = 2 * n;
      int[] array3 = new int[length];
       int count = 0, j = 0;
       Console.WriteLine("Enter values in array 1");
      for (int i = 0; i < n; i++)
         array1[i] = Convert.ToInt32(Console.ReadLine());
       Console.WriteLine("Enter values in array2");
       for (int i = 0; i < n; i++)
         array2[i] = Convert.ToInt32(Console.ReadLine());
       while (j < n)
         array3[count] = array1[j];
         count++;
         j++;
      int k = 0;
       while (k < n)
         array3[count] = array2[k];
         count++;
```

```
k++;
}
//sort array in ascending order
for (int i = 0; i < length; i++)
{
    for (k = 0; k < length - 1; k++)
    {
        if (array3[k] >= array3[k + 1])
        {
            j = array3[k + 1];
                array3[k + 1] = array3[k];
                array3[k] = j;
        }
    }
}
Console.WriteLine("merge Array is");
for (int i = 0; i < length; i++)
{
        Console.WriteLine(array3[i]);
}
Console.WriteLine("By Rimsha Bilal");
Console.ReadLine();
}
</pre>
```

Output: