# LOOP STATEMENT

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

namespace loops
{
    class Program
    {
        static void Main(string[] args)
        {
            int a;
            Console.WriteLine("Enter a value for a: ");
            a = int.Parse(Console.ReadLine());
         /*   do
            {
                Console.WriteLine(a);
                a++;
                //   a = a + 1;
            } while (a <= 10);
          */
            /*  while (a <= 10)
                        {
                            Console.WriteLine(a);
                            a++;
                            //   a = a + 1;
                        } while (a <= 10)
             */

            // for loop
            for (int b = 1; b <= a; b++)
            {
                Console.WriteLine(b);
            }

            Console.ReadKey();

        }
    }
}
```

# CASE STATEMENT

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

namespace conditional
{
    class Program
    {
        static void Main(string[] args)
        {
            int choice;
            Console.WriteLine("Main Choice");
            Console.WriteLine("[1] First Name");
            Console.WriteLine("[2] Last Name");
            Console.WriteLine("[3] Gender");
            Console.Write("Enter your Choice: ");
            choice = int.Parse(Console.ReadLine());
            switch (choice)
            {
                case 1:
                    Console.WriteLine("Jerwin");
                    break;
                case 2:
                    Console.WriteLine("Cabral".ToUpper());
                    break;
                case 3:
                    Console.WriteLine("MALE");
                    break;
                default:
                    Console.WriteLine("invalid entery".ToUpper());
                    break;

            }
            Console.ReadKey();
        }
    }
}
```

# STRING MANIPULATION & MATH

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

namespace stringmanipulation
{
    class Program
    {
        static void Main(string[] args)
        {
            string movie = "Lord of the Rings";
            Console.WriteLine(movie);
            Console.WriteLine(movie[3]);
            Console.WriteLine(movie.Trim());
            Console.WriteLine(movie.ToUpper());
            Console.WriteLine(movie.ToLower());
            Console.WriteLine(movie.Trim().Length);
            Console.WriteLine(movie.Replace('o','O'));
            Console.WriteLine(movie.IndexOf('o'));
            Console.WriteLine(movie.LastIndexOf('o'));
            Console.WriteLine(movie.Substring(5).ToUpper());
            Console.WriteLine(movie.Remove(4).ToUpper());
            Console.WriteLine(movie.Insert(0, "The ").ToUpper());
            // for math
            double x = 5.838;
            Console.WriteLine(Math.Ceiling(x));
            Console.WriteLine(Math.Floor(x));
            Console.WriteLine(Math.Round(x,2));
            Console.WriteLine(Math.Truncate(x));
            int a = 4, b = 5;
            double c = 7;
            Console.WriteLine(Math.Max(a,c));
            Console.WriteLine(Math.Min(a+b+4, (c-a)*2));
            Console.WriteLine(Math.Round(Math.Sqrt(c),2));
            a = int.Parse(Console.ReadLine());
            b = int.Parse(Console.ReadLine());
            Console.WriteLine(Math.Pow(a,b));
            Console.ReadKey();
        }
    }
}
```