

Taazaa Training

“Assignment 1”

Submitted by:-

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1) Introduction to loop:-

```
using System;

namespace intro_to_loop
{
    class intro_loop
    {
        static void Main(string[] args)
        {
            Console.WriteLine("Printing first 10 natural no");
            for(int i=1;i<=10;i++){
                Console.WriteLine(i);
            }
        }
    }
}
```

2) For Loop

```
using System;

namespace for_loop
{
    class for_loop_eg
    {
        static void Main(string[] args)
        {
            Console.WriteLine("Enter the no for which you want to print table:- ");
            int a=Convert.ToInt32(Console.ReadLine());
            for(int i=1;i<=10;i++){
                Console.WriteLine(a+" X "+i+" = "+a*i);
            }
            Console.WriteLine("Made by Gurpreet Singh");
        }
    }
}
```

3) While Loop

```
using System;

namespace while_loop
{
    class while_loop_eg
    {
        static void Main(string[] args)
        {
            int count=1;
            string text="Made by Gurpreet Singh";
            int a=Convert.ToInt32(Console.ReadLine());
            while(count<=10){
                Console.WriteLine(a+" X "+count+" = "+a*count);
                count+=1;
            }
            Console.WriteLine(text);
        }
    }
}
```

4) Do While Loop:-

```
using System;
namespace do_while_loop
{
    class Program
    {
        static void Main(string[] args)
        {
            int count=1;
            string text="Made by Gurpreet Singh";
            int a=Convert.ToInt32(Console.ReadLine());
            do{
                Console.WriteLine(a+" X "+count+" = "+a*count);
                count+=1;
            }while(count<=10);
            Console.WriteLine(text);
        }
    }
}
```

5) foreach loop

```
using System;
```

```
namespace for_each_loop
```

```
{  
    class foreach_loop  
    {  
        static void Main(string[] args)  
        {  
            string a="Made By ";  
            foreach(char i in a){  
                Console.WriteLine(i);  
            }  
            Console.WriteLine("Gurpreet Singh");  
        }  
    }  
}
```

6) Introduction to Strings

```
using System;

namespace Intro_to_String
{
    class introToString
    {
        static void Main(string[] args)
        {
            Console.WriteLine("Enter your Name");
            String a=Console.ReadLine();
            Console.WriteLine(" Your Name is : "+a);
            Console.WriteLine("Made BY Gurpreet Singh");
        }
    }
}
```

7) Mutable Strings

```
using System;
using System.Text;

namespace mutable_String
{
    class mutableString
    {
        static void Main(string[] args)
        {
            StringBuilder a =new StringBuilder("Hello World!");
            Console.WriteLine("value of a :-"+a);
            a.Replace("Hello World!","Gurpreet Singh");
            Console.WriteLine("New value of a :-
"+a); // here it replace Hello World! to Gurpreet Singh in same memory l
ocation
        }
    }
}
```

8) Immutable Strings

```
using System;
```

```
namespace immutable_String
```

```
{
```

```
    class immutableString
```

```
    {
```

```
        static void Main(string[] args)
```

```
        {
```

```
            string a="Gurpreet";
```

```
            string b=a;
```

// so in this case value of variable a i.e. Gurpreet is stored in pool memory and variable b is pointing to that memory location in heap memory where value of a is stored

```
            a="Gurpreet Singh";
```

// so now in this case variable a is pointing to new memory location in pool memory where Gurpreet Singh is stored instead of replacing its value at previous location

```
            Console.WriteLine(a+" (stored in new location ) , "+b+"(pointing to location 1)");
```

```
        }
```

```
    }
```

```
}
```

9) Strings Methods

```
using System;
```

```
namespace Strings_methods
```

```
{
```

```
    class stringMethod
```

```
    {
```

```
        static void Main(string[] args)
```

```
        {
```

```
            String a=Console.ReadLine();
```

```
            Console.WriteLine("value of a in Upper case :- "+a.ToUpper());
```

```
            Console.WriteLine("value of a in lower case :- "+a.ToLower());
```

```
        }
```

```

        Console.WriteLine("value of a in without whitespace at end :
- "+a.Trim());
        String b=Console.ReadLine();
        Console.WriteLine("concat value of b to a :- "+string.Concat
(a,b));
        Console.WriteLine("to check equality of a and b :- "+a.Equa
ls(b));
        Console.WriteLine("enter the value that u want to replace in
a:-");
        String c=Console.ReadLine();
        Console.WriteLine("with new value :- ");
        String d=Console.ReadLine();
        Console.WriteLine("value of a :-"+a.Replace(c,d));
        Console.WriteLine("enter the value that u want to insert in
a "+ "at position :- 2"+":-");
        c=Console.ReadLine();
        Console.WriteLine("value of a :-"+a.Insert(2,c));
    }
}

```

10) Verbatim String

```

using System;

namespace Verbatim_String
{
    class verbatimString
    {
        static void Main(string[] args)
        {
            String @for="Gurpreet Singh";
            Console.WriteLine("value for @for : "+@for);
            foreach(char @in in @for){
                Console.Write(@in+"-");
            }
        }
    }
}

```