

## C# -ASSIGNMENT(DAY 1)

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### Exercises:

1. Write a program to count how many numbers between 1 and 100 are divisible by 3 with no remainder. Display the count and individual numbers on the console

```
ain.cs
using System;

class MainClass {
    public static void Main (string[] args) {
        //Count of the Number divisble by 3
        int count=0;
        Console.WriteLine("The number divisble by 3 between
1 and 100 are:");
        for(int i=1;i<=100;i++){
            if(i%3==0){
                Console.Write(i + " ");
                count=count+1;
            }
        }
        Console.WriteLine("Total count is:"+(count));
    }
}
```

```
> mcs -out:main.exe main.cs
> mono main.exe
The number divisble by 3 between 1 and 100 are:
3 6 9 12 15 18 21 24 27 30 33 36 39 42 45 48 51 54 57 60 63
66 69 72 75 78 81 84 87 90 93 96 99 Total count is:33
> |
```

2. Write a program and ask the user to enter a number. Compute the factorial of the number and print it on the console. For example, if the user enters 5, the program should calculate  $5 \times 4 \times 3 \times 2 \times 1$  and display it as  $5! = 120$

```
:S
//Factorial of the number
int fact=1;
Console.WriteLine("Enter any Number: ");
int number= Convert.ToInt32(Console.ReadLine());

for(int i=1;i<=number;i++){
    fact=fact*i;
}
Console.WriteLine(number+" ! = "+fact);

/*int max=0;
```

```
> mcs -out:main.exe main.cs
> mono main.exe
Enter any Number:
6
6 ! = 720
> |
```

3. Write a console program and ask the user to enter a series of numbers separated by comma. Find the maximum of the numbers and display it on the console. For example, if the user enters "15, 3, 28, 1, 44", the program should display 44.

CS

```
//Maximum Element in an array
int n =Int32.Parse(Console.ReadLine());
int[] arr = new int[n];
for(int i=0;i<n;i++){
    arr[i] = Convert.ToInt32(Console.ReadLine());
}
Console.WriteLine("Your array is: ");
Console.WriteLine(string.Join(" ",arr));
int max=0;
for (int i= 0;i<=n-1;i++)
{
    if(arr[i]>max){
        max=arr[i];
    }
}
Console.WriteLine("The max element in your array
is: "+max);
```

```
> mcs -out:main.exe main.cs
> mono main.exe
4
6
7
8
7
Your array is:
6 7 8 7
The max element in your array is: 8
> □
```

4. Write a program to accept input from user (Enter number). Suppose if user Enter Number 10 print "This is Number 1 ","this is number 2" so on like that based on input number from user

CS

```
Console.WriteLine("Enter number");
int number=Convert.ToInt32(Console.ReadLine());
for(int i=1;i<=number;i++){
    Console.WriteLine("This number is :"+ i);
}
```

```
> mcs -out:main.exe main.cs
> mono main.exe
Enter number
12
This number is :1
This number is :2
This number is :3
This number is :4
This number is :5
This number is :6
This number is :7
This number is :8
This number is :9
This number is :10
This number is :11
This number is :12
> □
```

5. Write a console program to accept input from user ("Enter your Name") and perform below Tasks using C#

- a. If user enters “Prathap” return “you have entered Prathap. which has length of 7 characters.”

```
CS
//length of string
Console.WriteLine("Enter your name:");
string name=Console.ReadLine();

int length=name.Length;
Console.WriteLine("You have entered "+ (name) + "
which has length of "+ (length) +" character(s)");
```

```
> mcs -out:main.exe main.cs
> mono main.exe
Enter your name:
Vishali
You have entered Vishali which has length of 7 character(s)
> 
```

- b. If user enters “Welcome to my Session” return “Hello your sentence contains 4 words. your third word is “my”“

```
CS
//The third word of sentence
Console.WriteLine("Enter your sentence:");
string sentence=Console.ReadLine();
string[] split=sentence.Split(' ');
for(int i=0;i<=split.Length;i++){
    if(i==2){
        Console.WriteLine("The 3rd word is : " +split[i]
        );
    }
}
```

```
> mcs -out:main.exe main.cs
> mono main.exe
Enter your sentence:
Guvi Geeks Csharp training
The 3rd word is : Csharp
> 
```