

Lab Assignment # 1

Ques1) Write a program that calculates and prints the $n!$ for any n in the range [1...100].

```
using System;

namespace Lab1
{
    class Program
    {
        static void Main(string[] args)
        {
            int fact=1;
            Console.WriteLine("Enter number:");
            int n = Convert.ToInt32(Console.ReadLine());
            if(n<1 || n>100){
                Console.WriteLine("INVALID" );
            }
            else{
                for(int i=1;i<=n;i++){
                    fact=fact*i;
                }
                Console.WriteLine("Factorial of "+n+"="+fact);
            }
        }
    }
}
```

OUTPUT

```
PS C:\Users\user\Desktop\SEM-3\C#\C-sharp programs\Lab1> dotnet run
Enter number:
4
Factorial of 4=24
```

```
PS C:\Users\user\Desktop\SEM-3\C#\C-sharp programs\Lab1> dotnet run
Enter number:
101
INVALID
```

Ques2)Write a method that prints the digits of a given decimal number in a reversed order. For example 256, must be printed as 652.

```
using System;

namespace LabQues2
{
    class Program
    {
        static void Main(string[] args)
        {
            int n, reverse=0, rem;
            Console.Write("Enter a number: ");
            n= int.Parse(Console.ReadLine());
            while(n!=0)
            {
                rem=n%10;
                reverse=reverse*10+rem;
                n/=10;
            }
            Console.Write("Reversed Number: "+reverse);
        }
    }
}
```

OUTPUT

```
PS C:\Users\user\Desktop\SEM-3\C#\C-sharp programs\LabQues2> dotnet run
Enter a number: 3456
Reversed Number: 6543
```