

Lab-3

1.

Code :-

```
using System;

namespace Program
{
    class MainClass
    {
        public static void Main(string[] args)
        {

            Console.WriteLine("Please Enter Numerator : ");
            int num = int.Parse(Console.ReadLine() ?? throw new Exception());

            Console.WriteLine("Please Enter Denominator : ");
            int deno = int.Parse(Console.ReadLine() ?? throw new Exception());

            int q = num / deno;
            int r = num % deno;
            double f = (float)num / (float)deno;

            //For Rounding double digits
            f = Math.Round(f, 2);

            Console.WriteLine($"Integer division result : {q} with remainder {r}");
            Console.WriteLine($"Floating point division result : {f}");
            Console.WriteLine($"The result of mixed fraction : {q} {r}/{deno}");

        }
    }
}
```

Output :-

```
kali@kaliman:~/Documents/LAB WORK SEM VI/.NET LAB/Lab-3/Q1$ dotnet run
Please Enter Numerator :
34
Please Enter Denominator : 37
Integer division result : 0 with remainder 34
Floating point division result : 0.92
The result of mixed fraction : 0 34/37
kali@kaliman:~/Documents/LAB WORK SEM VI/.NET LAB/Lab-3/Q1$ █
```

2.

Code :-

```
using System;

namespace Program
{
    class StringManipulation
    {
        public static void Main(String[] args)
        {
            //length of string
            Console.WriteLine("1. Enter any String : - ");
            string str = Console.ReadLine() ?? throw new Exception();

            int len = str.Length;
            Console.WriteLine($"The length of string {str} is {len} .");

            //find type of sentence
            Console.WriteLine("2. Enter Sentence :- ");
            string sentence = Console.ReadLine() ?? throw new Exception();
            StringManipulation.checkSentence(sentence);

            //first and last name
            Console.WriteLine("3. Enter Your Full Name : ");
            string name = Console.ReadLine() ?? throw new Exception();

            int space = name.IndexOf(" ");

            string fname = name.Substring(0, space);
            string lname = name.Substring(space);

            Console.WriteLine($"{lname} , {fname}");
        }

        public static void checkSentence(string s)
        {
            if (s.EndsWith("."))
                Console.WriteLine("Above Sentence Is Declarative ");

            else if (s.EndsWith("?"))
                Console.WriteLine("Above Sentence Is Interogatory ");

            else if (s.EndsWith("!"))
                Console.WriteLine("Above Sentence Is Exclamatory ");

            else
                Console.WriteLine("Above Sentence Is Something else ");
        }
    }
}
```

```
}  
  
}  
  
}
```

Output:-

```
kali@kaliman:~/Documents/LAB WORK SEM VI/.NET LAB/Lab-3/Q2$ dotnet run  
1. Enter any String : -  
Smit Shah  
The length of string Smit Shah is 9 .  
2. Enter Sentence :-  
My Name Is Smit Shah.  
Above Sentence Is Declarative  
3. Enter Your Full Name :  
Smit Shah  
Shah , Smit  
kali@kaliman:~/Documents/LAB WORK SEM VI/.NET LAB/Lab-3/Q2$
```

3.

Code:-

```
using System;  
  
namespace Enumeration  
{  
    public enum Days  
    {  
        None = 0b_0000_0000, // 0  
  
        Monday = 0b_0000_0001, // 1  
  
        Tuesday = 0b_0000_0010, // 2  
  
        Wednesday = 0b_0000_0100, // 4  
  
        Thursday = 0b_0000_1000, // 8  
  
        Friday = 0b_0001_0000, // 16  
  
        Saturday = 0b_0010_0000, // 32  
  
        Sunday = 0b_0100_0000, // 64  
  
        Weekend = Saturday | Sunday  
    }  
    public class Enum  
    {  

```

```
public static void Main(String[] arg)
{

    Days meetingDays = Days.Monday | Days.Wednesday | Days.Friday;

    Console.WriteLine(meetingDays);

    // Output:

    // Monday, Wednesday, Friday

    Days workingFromHomeDays = Days.Thursday | Days.Friday;

    Console.WriteLine($"Join a meeting by phone on {meetingDays &
workingFromHomeDays}");

    // Output:

    // Join a meeting by phone on Friday

    bool isMeetingOnTuesday = (meetingDays & Days.Tuesday) == Days.Tuesday;

    Console.WriteLine($"Is there a meeting on Tuesday: {isMeetingOnTuesday}");

    // Output:

    // Is there a meeting on Tuesday: False

    var a = (Days)37;

    Console.WriteLine(a);

}
}
```

Output :-

```
kali@kaliman:~/Documents/LAB WORK SEM VI/.NET LAB/Lab-3/Q3$ dotnet run
21
Join a meeting by phone on Friday
Is there a meeting on Tuesday: False
37
kali@kaliman:~/Documents/LAB WORK SEM VI/.NET LAB/Lab-3/Q3$
```