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**Assignment - 3**

**GitHub Link : https://github.com/harsh391/dot-net-3**

**Code:**

int numerator, denom, whole\_no;

float float\_div;

Console.WriteLine("Enter Numerator : ");

numerator = Convert.ToInt32(Console.ReadLine());

Console.WriteLine("Enter Denominator : ");

denom = Convert.ToInt32(Console.ReadLine());

int int\_div = numerator / denom;

int int\_rem = numerator % denom;

Console.WriteLine("Integer division result = {0} with a remainder {1}", int\_div, int\_rem);

float\_div = (float)numerator / denom;

Console.WriteLine("Floating point division result = {0}", float\_div);

if (numerator >= denom){

    whole\_no = numerator / denom;

    numerator = numerator % denom;

    Console.WriteLine("The result as a mixed fraction is {0} {1}/{2}", whole\_no, numerator, denom);

}

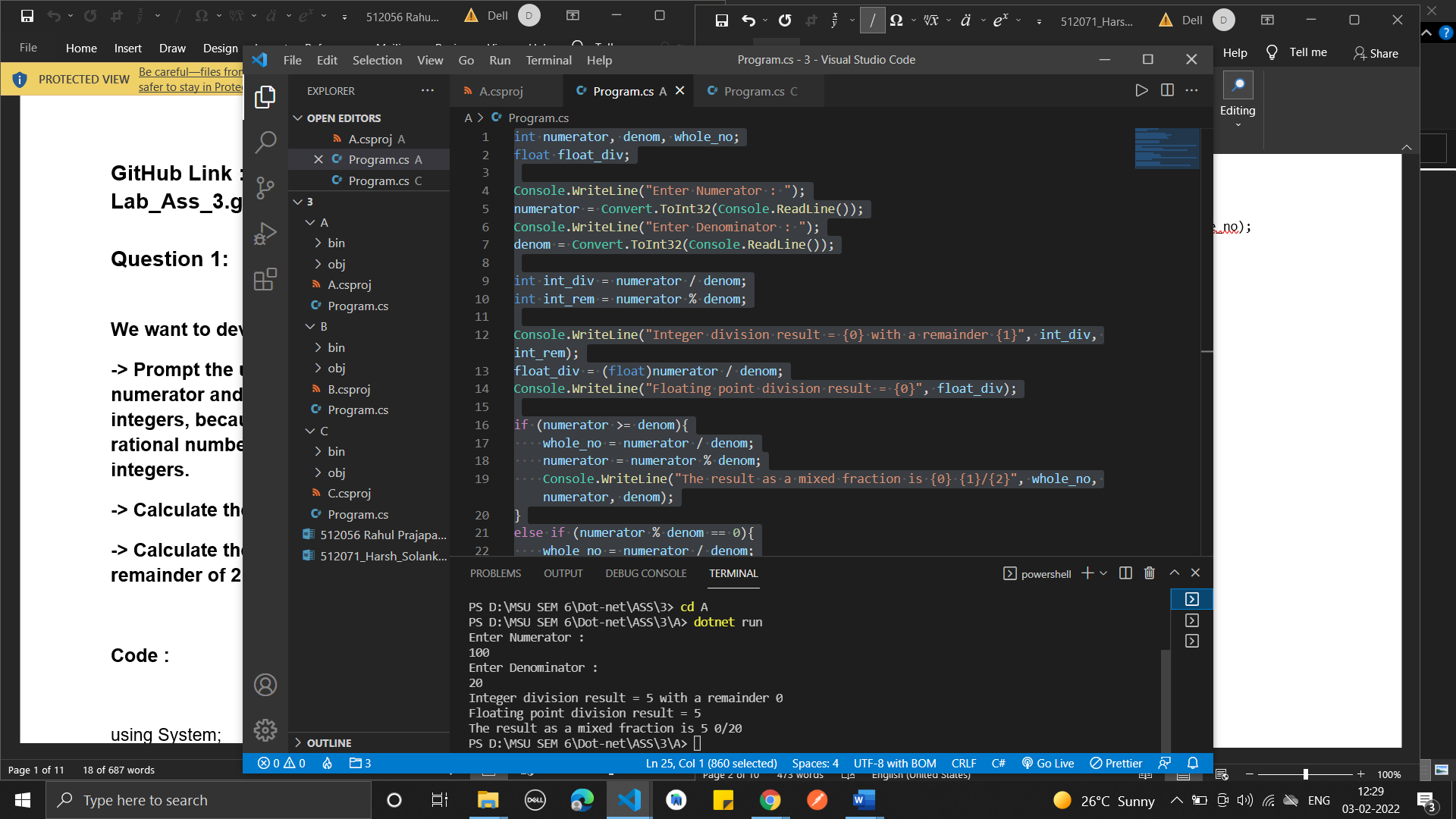
else if (numerator % denom == 0){

    whole\_no = numerator / denom;

    Console.WriteLine("The result as a mixed fraction is {0}", whole\_no);

}

**Output:**



**Code:**

// Part 1:

string str;

Console.WriteLine("Enter String:");

str = Console.ReadLine();

Console.WriteLine($"String : {str}\nLength of String: {str.Length}");

// Part:2

string sentance;

Console.WriteLine("Enter Sentance:");

str = Console.ReadLine();

if(str.EndsWith('.')){

    Console.WriteLine("This is declarative sentance");

}

else if(str.EndsWith('?')){

    Console.WriteLine("This is interrogatory sentance");

}

else if(str.EndsWith('!')){

    Console.WriteLine("This is exclamation sentance");

}

else {

    Console.WriteLine("This is unknown sentance");

}

// Part:3

string fullName;

Console.WriteLine("Enter your Name:");

fullName = Console.ReadLine();

String[] name = fullName.Split(' ');

if(name.Length==1){

    Console.WriteLine($"Your Name: {name[0]}");

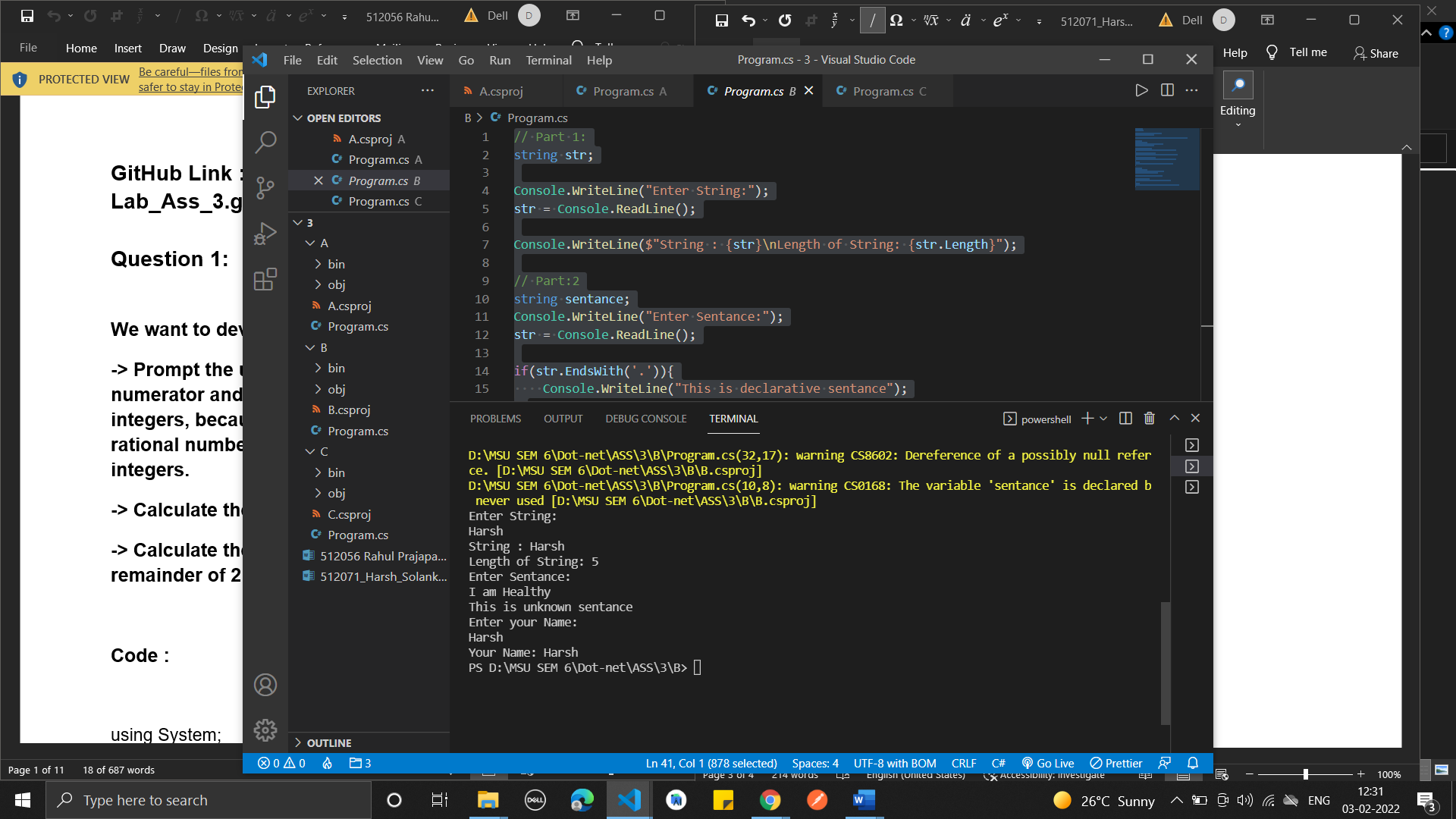
}

else {

    Console.WriteLine($"Your Name: {name[1]}, {name[0]}");

}

**Output :**



**3.**

**Code:**

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 FlagsEnumExample{

    public static void Main(){

        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:

        // Monday, Wednesday, Saturday

    }

}

**Output :**

