Day 3

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Date : 22/08/2024

Program 1:

Code:

Program.cs

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace Prgm1
{
  class Program
  {
    static void Main(string[] args)
    {
      Console.WriteLine("Enter the letter found in paper");
      string x = Console.ReadLine();
      if (x.Contains("T"))
      {
        IOpenable trs = new TreasureBox();
        Console.WriteLine(trs.openSesame());

      }
      else if(x.Contains("P"))
      {
        IOpenable prc = new Parachute();
        Console.WriteLine(prc.openSesame());
```

```
        }
        Console.ReadKey();
      }
    }
}
```

Iopenable.cs

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace Prgm1
{
  public interface IOpenable
  {
   string openSesame();
  }
}
```

TreasureBox.cs

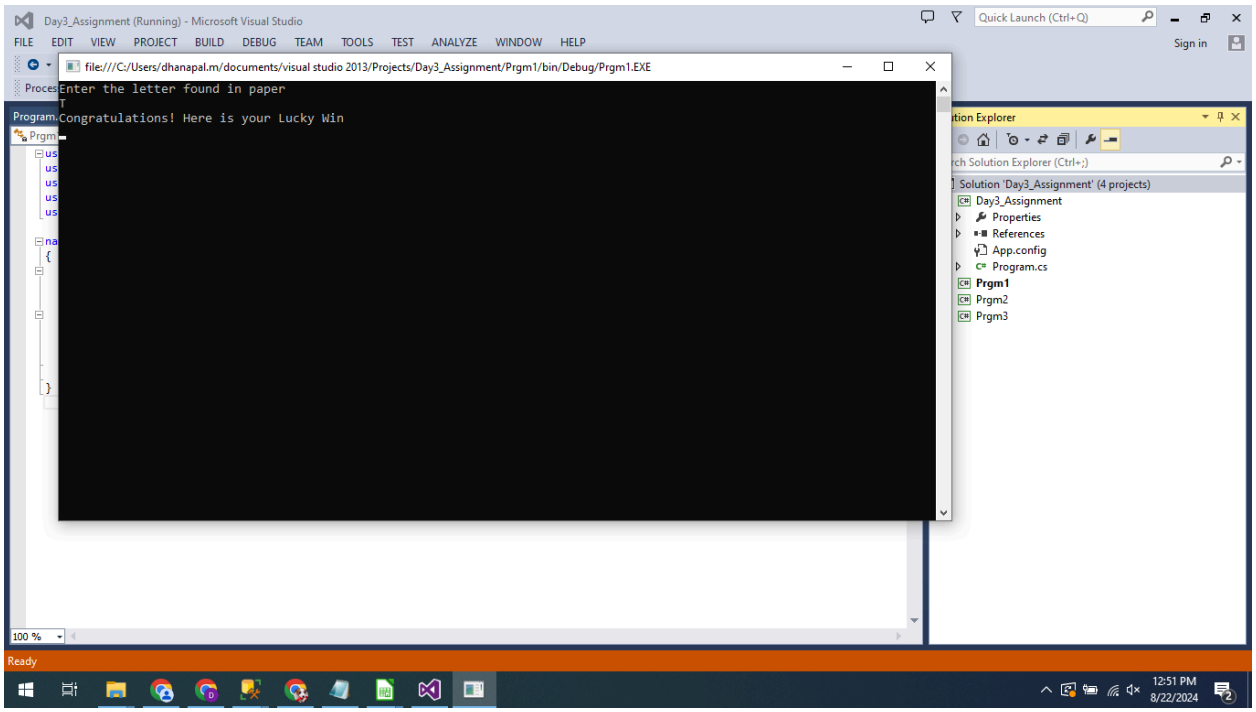
```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace Prgm1
{
  class TreasureBox : IOpenable
```

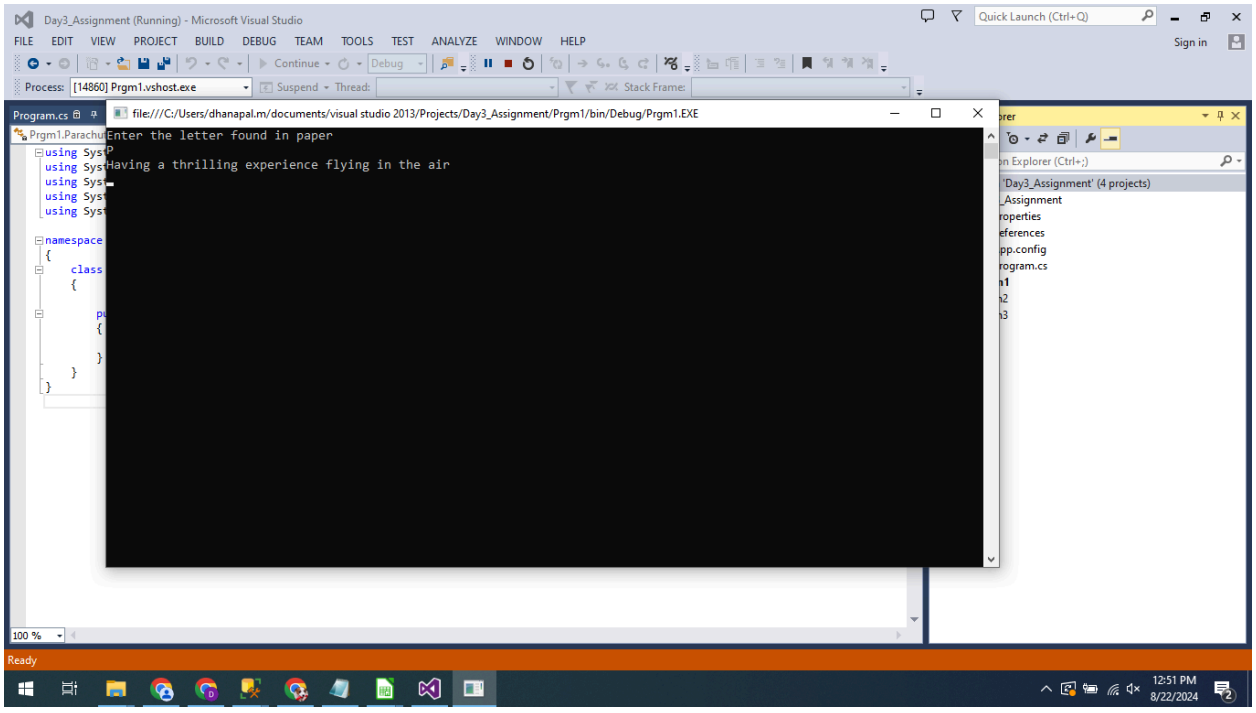
```
  {
    public string openSesame()
    {
      return "Congratulations! Here is your Lucky Win";

    }


  }
}
```

Parachute.cs

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace Prgm1
{
  class Parachute : IOpenable
  {

    public string openSesame()
    {
      return "Having a thrilling experience flying in the air";
    }
  }
}
```

Output


Day3_Assignment (Running) - Microsoft Visual Studio
file:///C:/Users/dhanapal.m/documents/visual studio 2013/Projects/Day3_Assignment/Prgm1/bin/Debug/Prgm1.EXE
Enter the letter found in paper
T
Congratulations! Here is your Lucky Win
Solution 'Day3_Assignment' (4 projects)
Day3_Assignment
Properties
References
App.config
Program.cs
Prgm1
Prgm2
Prgm3
Ready


Day3_Assignment (Running) - Microsoft Visual Studio
file:///C:/Users/dhanapal.m/documents/visual studio 2013/Projects/Day3_Assignment/Prgm1/bin/Debug/Prgm1.EXE
Enter the letter found in paper
P
Having a thrilling experience flying in the air
Ready

Program 2:

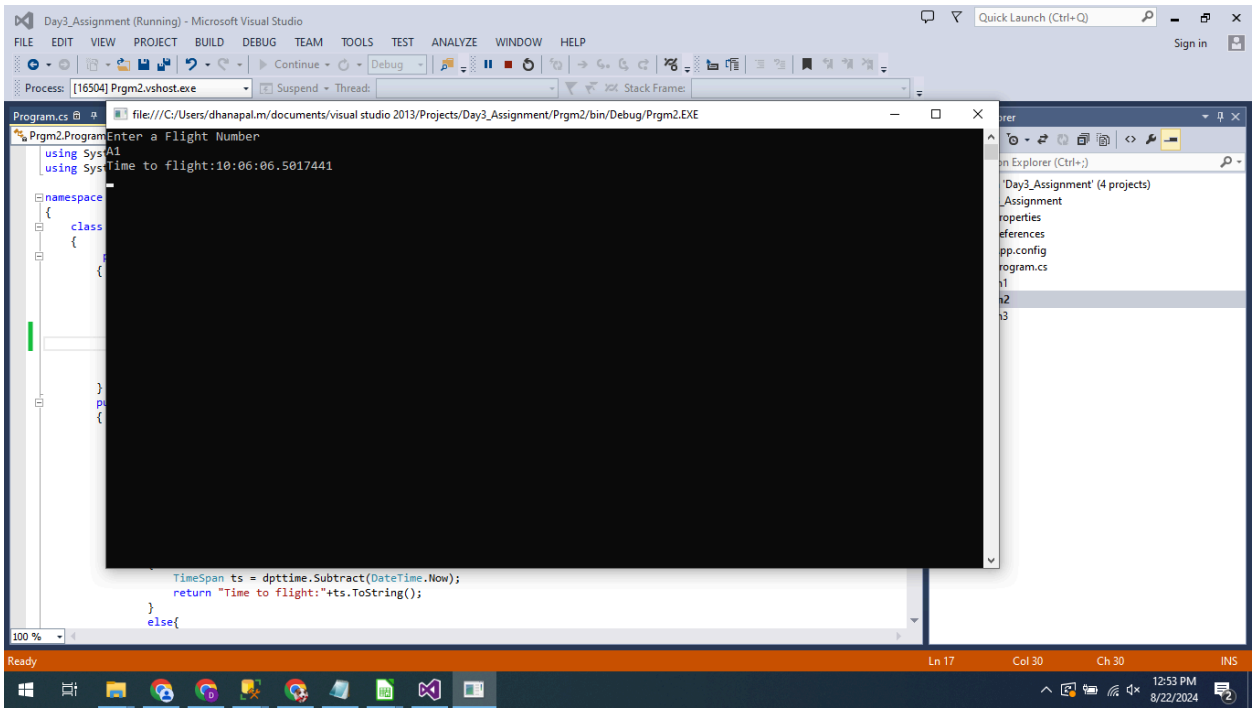
Code :

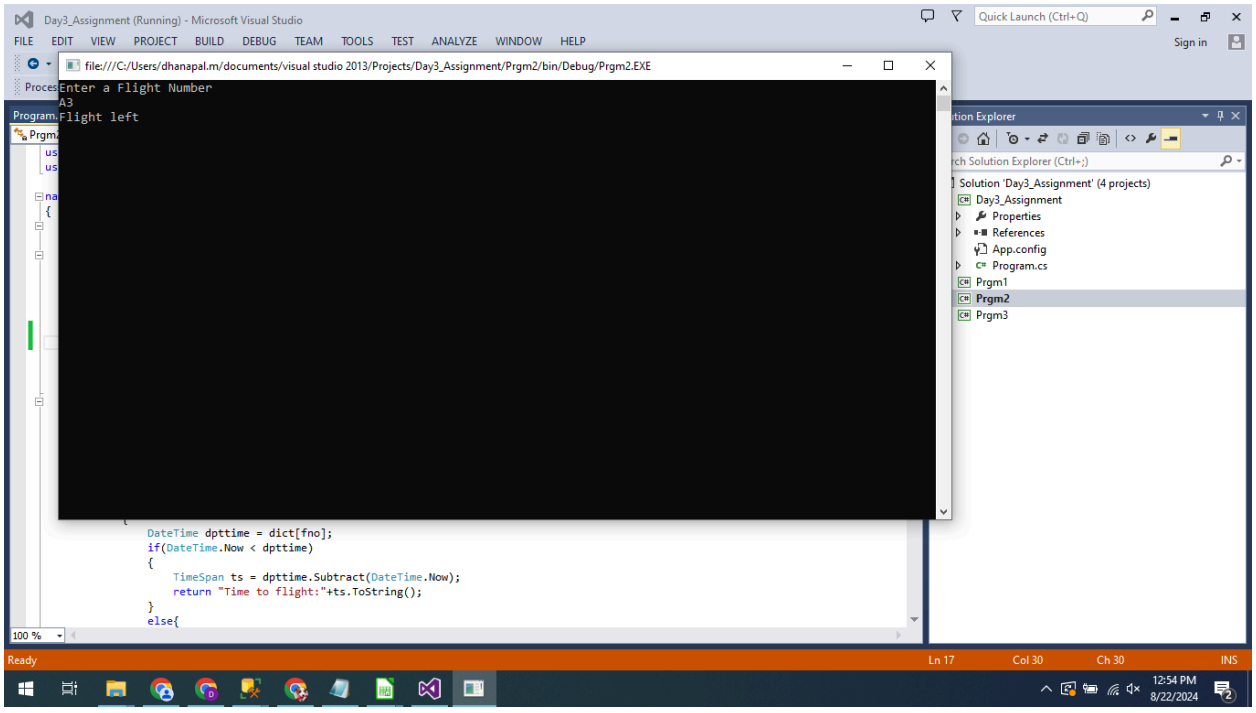
Program.cs

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace Prgm2
{
  class Program
  {
     public static void Main(string[] args)
     {

       Console.WriteLine("Enter a Flight Number");
       string flno = Console.ReadLine();
      Console.WriteLine( flightStatus(flno));



     }
     public static string flightStatus(string fno)
     {
       Dictionary<string, DateTime> dict = new Dictionary<string, DateTime>();
       dict.Add("A1", Convert.ToDateTime("23:00"));
       dict.Add("A2", Convert.ToDateTime("13:00"));
       dict.Add("A3", Convert.ToDateTime("07:00"));

       if (dict.ContainsKey(fno))
       {
```

```
            DateTime dpttime = dict[fno];
            if(DateTime.Now < dpttime)
            {
              TimeSpan ts = dpttime.Subtract(DateTime.Now);
              return "Time to flight:"+ts.ToString();
            }
            else{
               return "Flight left";
            }
          }
          else{
            return "Flight Invalid";
          }


          return null;
        }
      }
    }
```

Output :


Day3_Assignment (Running) - Microsoft Visual Studio
file:///C:/Users/dhanapal.m/documents/visual studio 2013/Projects/Day3_Assignment/Prgm2/bin/Debug/Prgm2.EXE
Enter a Flight Number
A1
Time to flight:10:06:06.5017441
TimeSpan ts = dpttime.Subtract(DateTime.Now);
return "Time to flight:"+ts.ToString();
}
else{
Ready
Ln 17
Col 30
Ch 30
INS
12:53 PM
8/22/2024


Day3_Assignment (Running) - Microsoft Visual Studio
file:///C:/Users/dhanapal.m/documents/visual studio 2013/Projects/Day3_Assignment/Prgm2/bin/Debug/Prgm2.EXE
Enter a Flight Number
A3
Flight left
DateTime dpttime = dict[fno];
if(DateTime.Now < dpttime)
{
TimeSpan ts = dpttime.Subtract(DateTime.Now);
return "Time to flight:"+ts.ToString();
}
else{
Solution 'Day3_Assignment' (4 projects)
Day3_Assignment
Properties
References
App.config
Program.cs
Prgm1
Prgm2
Prgm3
Ready
Ln 17
Col 30
Ch 30
INS
12:54 PM
8/22/2024

Program 3:

Code 1:

Program.cs

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;


namespace Prgm3
{

  class Program
  {
    static void Main(string[] args)
    {
      List<Product> list = new List<Product>();
      list.Add(new Product("Mouse", "M1", Convert.ToDateTime("02/28/2024"),
900));
      list.Add(new Product("Lap", "Lap1", Convert.ToDateTime("05/18/2024"),
1000));
      list.Add(new Product("Charger", "charger1",
Convert.ToDateTime("09/12/2024"), 2200));

      Console.WriteLine(String.Format("{0,-15}{1,-15}{2,-15}{3,-15}", "Product
Name","Serial Number", "Purchase Date", "Purchase Cost"));
      foreach (object li in list)
      {
        Console.WriteLine(li.ToString());
      }
```

```
        Console.ReadKey();
      }
    }
}
```

Product.cs

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace Prgm3
{
  public class Product
  {
    public string productname { get; set; }
    public string serialnumber { get; set; }
    public DateTime purchaseDate { get; set; }
    public double cost { get; set; }
    public Product(string PName, string SNumber, DateTime PDate, double
cost)
    {
      productname = PName;
      serialnumber = SNumber;
      purchaseDate = PDate;
      this.cost = cost;
    }
    public override string ToString()
    {
      return String.Format("{0,-15}{1,-15}{2,-15}{3,-15}",
```

```
            productname,
            serialnumber,
            purchaseDate.ToString("dd-MM-yyyy"),
            cost);
        }
    }
}
```

Output :