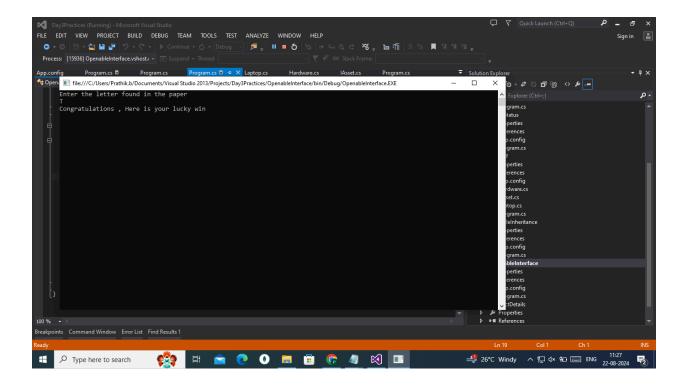
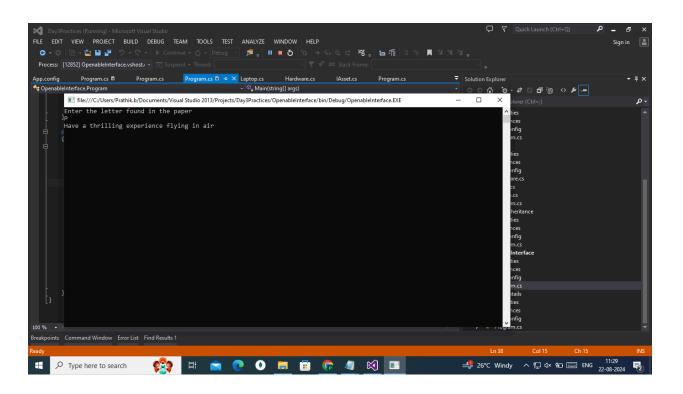
```
Date: 22-08-2024
1.
Code:
using System;
using System.Collections.Generic;
using System.Ling;
using System. Text;
using System. Threading. Tasks;
namespace OpenableInterface
{
  interface IOpenable
     string OpenSesame();
  }
  class TreasureBox : IOpenable
     public string OpenSesame()
       return "Congratulations, Here is your lucky win";
  }
  class Parachute: IOpenable
  {
     public string OpenSesame()
       return "Have a thrilling experience flying in air";
  }
  public class Program
```

```
static void Main(string[] args)
       Console. WriteLine ("Enter the letter found in the paper");
       char c = Convert.ToChar(Console.ReadLine());
       if (c == 'T')
          TreasureBox tb = new TreasureBox();
          Console.WriteLine(tb.OpenSesame());
       }
       else if (c == 'P')
       {
          Parachute p = new Parachute();
          Console.WriteLine(p.OpenSesame());
       }
       else
       {
          Console. WriteLine ("Better Luck Next Time");
       }
       Console.ReadKey();
  }
}
```

Output:

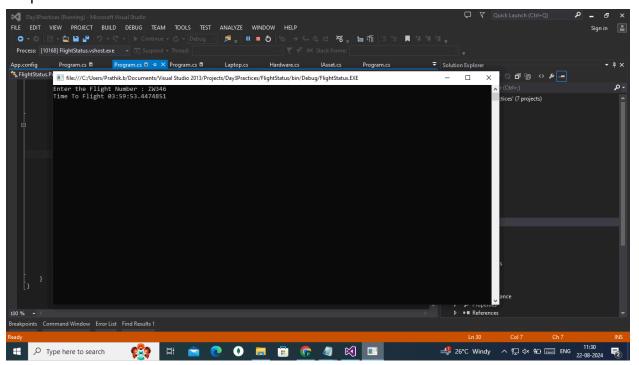


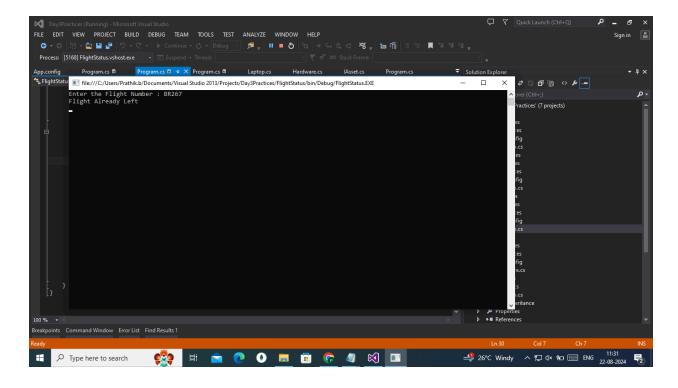


```
2.
Code:
using System;
using System.Collections.Generic;
using System.Ling;
using System. Text;
using System. Threading. Tasks;
namespace FlightStatus
  class Program
  {
     static Dictionary<string, DateTime> flights = new Dictionary<string, DateTime>();
     static string FlightStatus(string Fno)
    {
       DateTime time = flights[Fno];
       if (DateTime.Now < time)
          TimeSpan res = time.Subtract(DateTime.Now);
          return "Time To Flight " + res;
       return "Flight Already Left";
     }
     static void Main(string[] args)
     {
       flights.Add("ZW346", Convert.ToDateTime("15:30:30"));
       flights.Add("BR267", Convert.ToDateTime("07:30:30"));
       flights.Add("IN147", Convert.ToDateTime("20:30:30"));
       Console.Write("Enter the Flight Number: ");
       string Fno = Console.ReadLine();
```

```
if (flights.ContainsKey(Fno))
{
        Console.WriteLine(FlightStatus(Fno));
}
else
{
        Console.WriteLine("Invalid Flight Number");
}
Console.ReadKey();
}
}
```

Output:





```
3.
Code:
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace ProductDetails
{
    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;
     _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);
    }
  }
  class Program
     static void Main(string[] args)
       List<Product> list = new List<Product>();
       list.Add(new
Product("Bottle", "SN7543456", Convert. To Date Time("22-08-2024"), 200.00));
       list.Add(new Product("Lunch Box", "SN9874821",
Convert. To Date Time ("22-08-2024"), 150.00));
       list.Add(new Product("Towel", "SN7253178", Convert.ToDateTime("22-08-2024"),
75.00));
       Console.WriteLine(String.Format("{0,-15}{1,-15}{2,-15}{3,-15}", "Product Name",
       "Serial Number", "Purchase Date", "Purchase Cost"));
       foreach (var li in list)
       {
          Console.WriteLine(li.ToString());
       }
```

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

```
}
}
}
```

Output:

