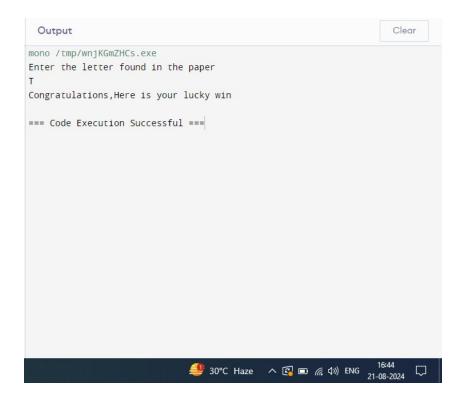
Assignment -3

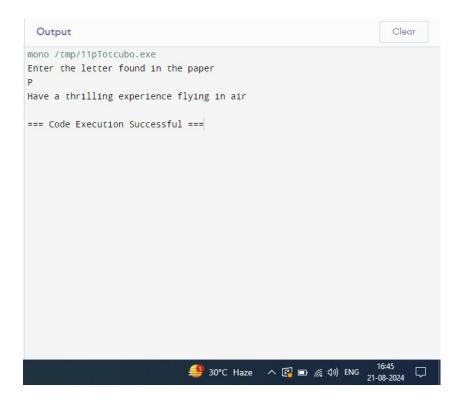
1. OpenableInterface

CODE:

```
using System;
internal interface IOpenable{
  string OpenSesame();
}
public class TreasureBox:IOpenable{
  public string OpenSesame(){
    return("Congratulations, Here is your lucky win");
  }
public class Parachute:IOpenable{
  public string OpenSesame(){
    return ("Have a thrilling experience flying in air");
  }
}
public class Program
  public static void Main(string[] args)
    Console.WriteLine ("Enter the letter found in the paper");
    string ch=Console.ReadLine();
    if(ch.ToLower().Equals("t")){
      TreasureBox tb=new TreasureBox();
      Console.WriteLine(tb.OpenSesame());
    else if(ch.ToLower().Equals("p")){
      Parachute p=new Parachute();
      Console.WriteLine(p.OpenSesame());
    }
  }
}
```

OUTPUT:

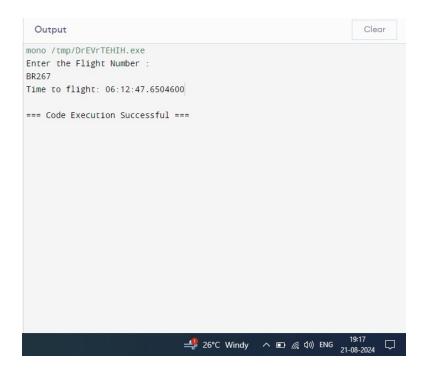


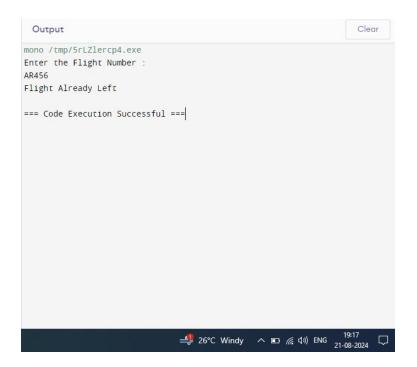


CODE:

```
using System;
using System.Collections.Generic;
public class Program
{
  public static string flightStatus(string flightNo){
     Dictionary<string,DateTime> flight = new Dictionary<string,DateTime>();
    flight.Add("AR456",Convert.ToDateTime("6:30:30"));
    flight.Add("ZW346",Convert.ToDateTime("18:20:40"));
    flight.Add("BR267",Convert.ToDateTime("22:40:20"));
    if(flight.ContainsKey(flightNo)){
       DateTime start_time=flight[flightNo];
      if(start time < DateTime.Now){
         return "Flight Already Left";
      }
      else{
         TimeSpan ts=start time.Subtract( DateTime.Now);
         return "Time to flight: "+ts.ToString();
      }
    }
    else{
      return("Invalid Flight No");
    }
  }
  public static void Main(string[] args)
      Console.WriteLine("Enter the Flight Number:");
      string fno=Console.ReadLine();
      string result=flightStatus(fno);
      Console.WriteLine(result);
  }
}
```

OUTPUT:





3. Product Details

CODE:

```
using System;
using System.Collections.Generic;
public class Product
  string productName;
  string _serialNumber;
  DateTime _purchaseDate;
  double cost;
  public Product(string productName, string serialNumber, DateTime purchaseDate,
double cost)
  {
    _productName = productName;
    _serialNumber = serialNumber;
    _purchaseDate = purchaseDate;
    _cost = cost;
  }
  public override string ToString()
    string Date = purchaseDate.ToString("dd-MM-yyyy");
    return $"{_productName,-15}{_serialNumber,-15}{Date,-15}{_cost,-15}";
  }
}
public class Program
  public static void Main()
    List<Product> products = new List<Product>();
    products.Add(new Product("HairTrimmer", "HT123", new DateTime(2017, 2,
10), 800));
    products.Add(new Product("Steel Box", "SB231", new DateTime(2018, 4, 11),
250));
    products.Add(new Product("Rope", "RP240", new DateTime(2019, 5, 13), 100));
    Console.WriteLine(String.Format("{0,-15}{1,-15}{2,-15}{3,-15}", "Product
Name", "Serial Number", "Purchase Date", "Purchase Cost"));
    foreach (Product p in products)
      Console.WriteLine(p.ToString());
  }
}
```

OUTPUT:

