## **Assignment 3**

#### 1. Openable Inferface

Code:

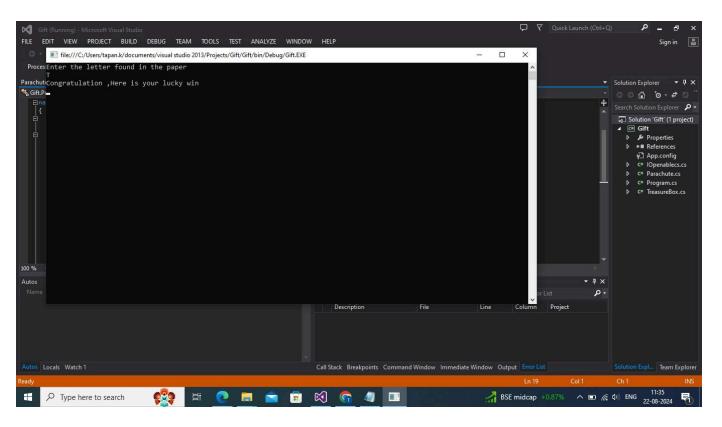
### Progam.cs

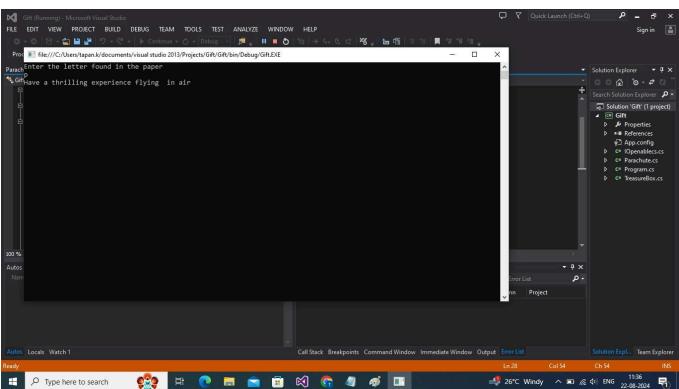
```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System. Threading. Tasks;
namespace Gift
  class Program
     static void Main(string[] args)
     {
       Char c;
       Console.WriteLine("Enter the letter found in the paper");
       c = Convert.ToChar(Console.ReadLine());
       if (c == 'T' || c == 't')
         TreasureBox t = new TreasureBox();
         Console.WriteLine( t.openSesame());
       else if( c=='p' || c=='P' )
         Parachute p = new Parachute();
           Console.WriteLine(p.openSesame());
       }
       Console.ReadKey();
```

```
}
 }
 TreasureBox.cs
using System;
using System.Collections.Generic;
using System.Ling;
using System.Text;
using System.Threading.Tasks;
namespace Gift
  class TreasureBox :IOpenable
    public string openSesame()
    {
       return "Congratulation, Here is your lucky win";
  }
 Parachute.cs
using System;
using System.Collections.Generic;
using System.Ling;
using System.Text;
using System.Threading.Tasks;
```

namespace Gift

## **Output:**





#### 2.Flight Status

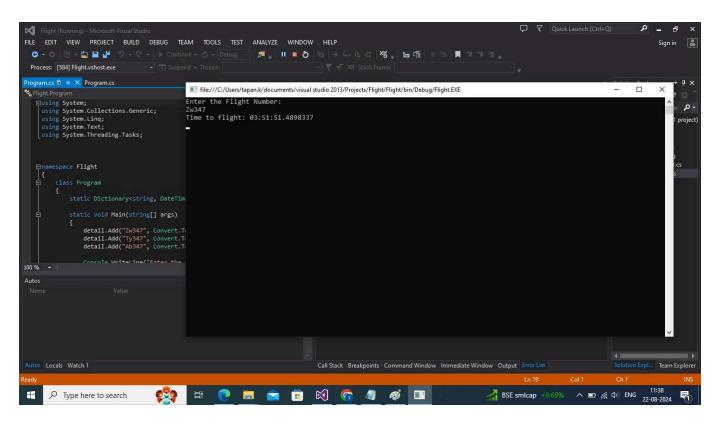
#### Code:

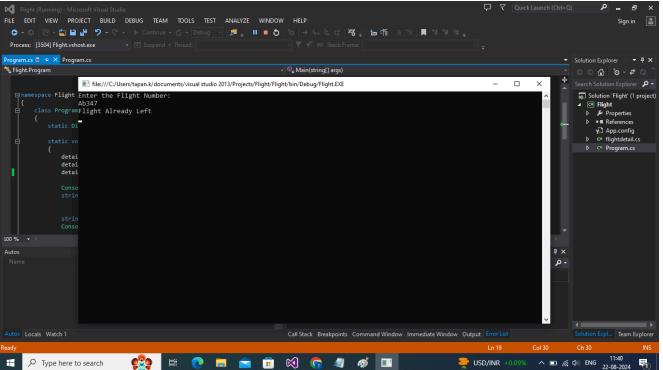
```
Progam.cs
using System;
using System.Collections.Generic;
using System.Ling;
using System.Text;
using System. Threading. Tasks;
namespace Flight
  class Program
    static Dictionary<string, DateTime> detail = new Dictionary<string, DateTime>();
    static void Main(string[] args)
       detail.Add("Zw347", Convert.ToDateTime("15:30:30"));
       detail.Add("Ty347", Convert.ToDateTime("18:38:30"));
       detail.Add("Ab347", Convert.ToDateTime("15:30:30"));
       Console.WriteLine("Enter the Flight Number:");
       string no = Console.ReadLine();
       string status = flightStatus(no);
       Console.WriteLine(status);
       Console.ReadKey();
    }
    public static string flightStatus(string flightNo)
       if (detail.ContainsKey(flightNo))
       {
```

```
DateTime start_time = detail[flightNo];
DateTime current = DateTime.Now;

if (start_time < current)
{
    return "Flight Already Left";
}
else
{
    return "Flight is On Time or Yet to Depart";
}
else
{
    return "Invalid Flight No";
}
}
```

# **Output:**





#### 3. Product Details

```
Program.cs
using System;
using System.Collections.Generic;
using System.Ling;
using System.Text;
using System.Threading.Tasks;
namespace ProjectDetail
  class Program
    static void Main(string[] args)
       List<Product> products = new List<Product>();
       products.Add(new Product("HairTrimmer", "HT123",
      Convert.ToDateTime("10-02-2017"), 800));
       products.Add(new Product("Steel Box", "SB231",
       Convert.ToDateTime("11-04-2018"), 250));
       products.Add(new Product("Rope", "RP240",
       Convert.ToDateTime("13-05-2019"), 100));
       Console.WriteLine(String.Format("{0,-15}{1,-15}{2,-15}{3,-15}", "Product Name",
       "Serial Number", "Purchase Date", "Purchase Cost"));
               foreach (Product product in products)
             {
                Console.WriteLine(product.ToString());
             Console.ReadKey();
           }
  }
}
Product.cs
using System;
```

using System.Collections.Generic;

```
using System.Ling;
using System.Text;
using System. Threading. Tasks;
namespace ProjectDetail
  internal class Product
     string _productName { get; set; }
     string _serialNumber { get; set; }
     DateTime _purchaseDate { get; set; }
     double _cost { get; set; }
     public Product(string productName, string serialNumber, DateTime purchaseDate,
     double cost)
      this._productName = productName;
      this._serialNumber = serialNumber;
      this. purchaseDate = purchaseDate;
        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:**

