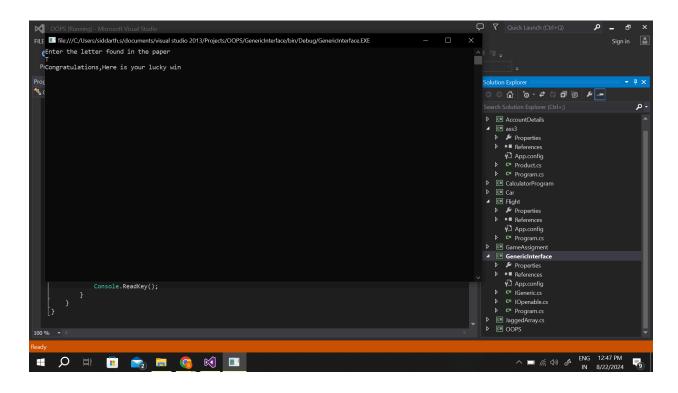
Day 3

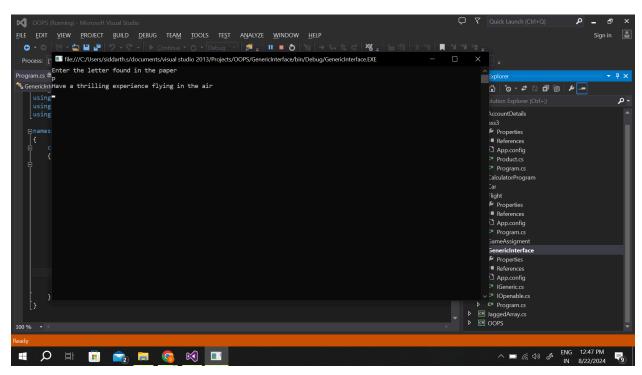
Name: Siddarth S Date: 22/08/2024

```
Program 1:
IOpenable.cs
using System;
using System.Collections.Generic;
using System.Ling;
using System.Text;
using System. Threading. Tasks;
namespace GenericInterface
{
  public interface IOpenable
   string OpenSesame();
  }
  public class TressureBox : 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 the air";
    }
```

```
}
}
Program.cs:
using System;
using System.Collections.Generic;
using System.Linq;
using System. Text;
using System. Threading. Tasks;
namespace GenericInterface
  class Program
     static void Main(string[] args)
       Console.WriteLine("Enter the letter found in the paper");
       string letter = Console.ReadLine();
       if (letter.ToUpper().Equals("T"))
          TressureBox tb = new TressureBox();
          Console.WriteLine(tb.OpenSesame());
       else if (letter.ToUpper().Equals("P"))
         Parachute ph = new Parachute();
          Console.WriteLine(ph.OpenSesame());
       Console.ReadKey();
  }
```

Output:

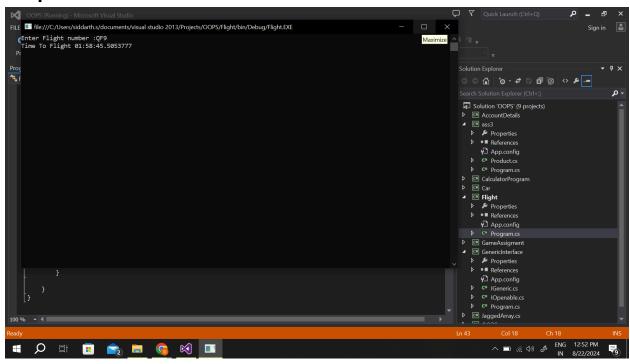


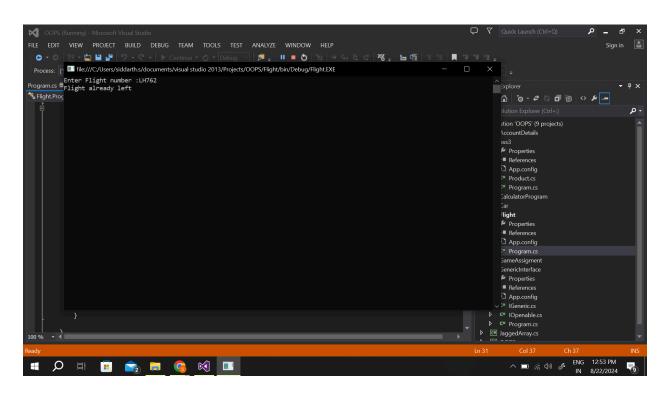


```
Program 2:
using System;
using System.Collections.Generic;
using System.Ling;
using System. Text;
using System. Threading. Tasks;
namespace Flight
  class Program
   Dictionary<string, DateTime> flightDetails = new Dictionary<string,
DateTime>();
    static void Main(string[] args)
       Console.Write("Enter Flight number:");
       string fnum = Console.ReadLine();
       Console.WriteLine(flightSatus(fnum));
       Console.ReadKey();
    }
    public static string flightSatus(string flightNo)
       Dictionary<string, DateTime> flightDetails = new
Dictionary<string, DateTime>();
       flightDetails.Add("ZW346",Convert.ToDateTime("16:30:17"));
       flightDetails.Add("Al101", Convert.ToDateTime("08:15:00"));
```

```
flightDetails.Add("EK530", Convert.ToDateTime("12:45:30"));
  flightDetails.Add("BA202", Convert.ToDateTime("17:20:15"));
  flightDetails.Add("SQ318", Convert.ToDateTime("22:55:45"));
  flightDetails.Add("LH762", Convert.ToDateTime("06:10:05"));
  flightDetails.Add("AF226", Convert.ToDateTime("19:30:25"));
  flightDetails.Add("QF9", Convert.ToDateTime("14:50:50"));
  flightDetails.Add("QR571", Convert.ToDateTime("23:40:10"));
  if (flightDetails.ContainsKey(flightNo))
  {
     DateTime check = flightDetails[flightNo];
     if (check > DateTime.Now)
     {
       return ("Time To Flight " + (check - DateTime.Now));
     else return ("Flight already left");
  else return "Invalid Flight number";
}
```

Output:





```
Program 3:
Product.cs
using System;
using System.Collections.Generic;
using System.Ling;
using System.Text;
using System. Threading. Tasks;
namespace ass3
  class Product
    string _productName;
    string serialNumber;
    DateTime purchaseDate;
    double cost;
    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,_serialNum
ber, purchaseDate.ToString("dd-MM-yyyy"), cost);
```

```
}
}
}
```

Program.cs using System;

```
using System.Collections.Generic;
using System.Ling;
using System.Text;
using System. Threading. Tasks;
namespace ass3
  class Program
    static void Main(string[] args)
       List<Product> list = new List<Product>();
       list.Add(new Product("Phone", "1234ph",
Convert.ToDateTime("05-30-2020"), 20000.20));
       list.Add(new Product("Car", "1t34ph",
Convert.ToDateTime("05-30-2020"), 550000.20));
       list.Add(new Product("Bike", "124ph",
Convert.ToDateTime("05-30-2020"), 220000.20));
       list.Add(new Product("PS5", "1234h",
Convert.ToDateTime("05-30-2020"), 20000.20));
```

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

foreach (Product p in list)
{
    Console.WriteLine(p.ToString());
}
Console.ReadKey();
}
```

Output:

