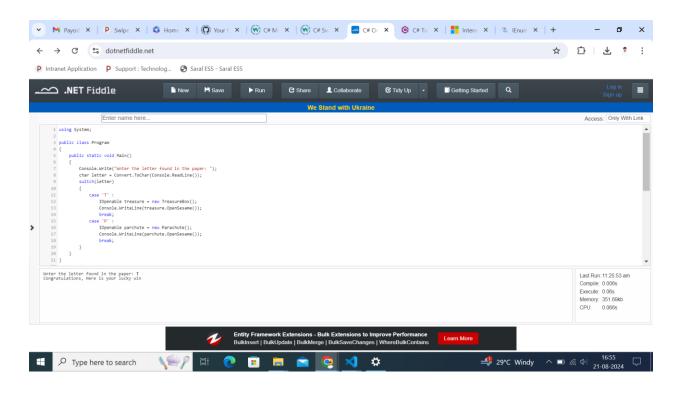
3 - DAY - TASK (21-08-2024)

1. OpenableInterface Program Code:

```
using System;
public class Program
public static void Main()
Console. Write ("Enter the letter found in the paper: ");
char letter = Convert.ToChar(Console.ReadLine());
switch(letter)
case 'T':
IOpenable treasure = new TreasureBox();
Console.WriteLine(treasure.OpenSesame());
break:
case 'P':
IOpenable parchute = new Parachute();
Console.WriteLine(parchute.OpenSesame());
break;
}
}
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";
}
}
```

Output:



2. FlightStatus Program Code:

```
using System;
using System.Collections.Generic;

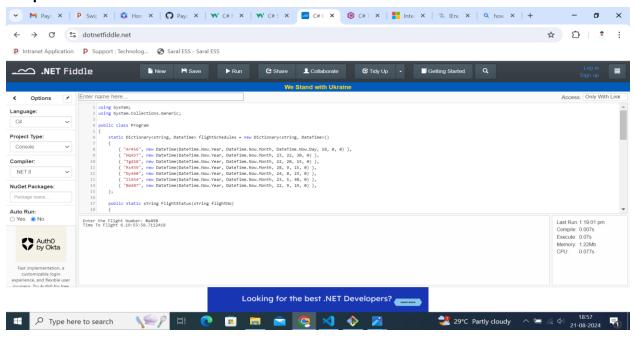
public class Program
{
   static Dictionary<string, DateTime> flightSchedules = new Dictionary<string,
DateTime>()
```

```
{
   { "Ar456", new DateTime(DateTime.Now.Year, DateTime.Now.Month,
DateTime.Now.Day, 18, 0, 0) },
   { "Hq457", new DateTime(DateTime.Now.Year, DateTime.Now.Month, 23, 22,
30, 0) },
   { "Tg458", new DateTime(DateTime.Now.Year, DateTime.Now.Month, 22, 20, 15,
0) },
   { "Rs459", new DateTime(DateTime.Now.Year, DateTime.Now.Month, 28, 9, 15,
0)},
   { "Dy460", new DateTime(DateTime.Now.Year, DateTime.Now.Month, 24, 8, 23,
0) },
   { "Zi454", new DateTime(DateTime.Now.Year, DateTime.Now.Month, 23, 5, 40,
0)},
   { "Bm487", new DateTime(DateTime.Now.Year, DateTime.Now.Month, 22, 9, 19,
0)},
 };
 public static string FlightStatus(string flightNo)
 {
   if (flightSchedules.TryGetValue(flightNo, out DateTime departureTime))
   {
     TimeSpan timeLeft = departureTime - DateTime.Now;
     if (timeLeft.TotalSeconds > 0)
     {
       int days = timeLeft.Days;
       TimeSpan time = timeLeft - TimeSpan.FromDays(days);
       //return $"Time To Flight {days} days {time.ToString(@"hh\:mm\:ss\.ffffff")}";
       //Output
       //Enter the Flight Number: Rs459
       //Time To Flight 6 days 19:58:48.952218
       return $"Time To Flight {timeLeft}";
       //Output
       //Enter the Flight Number: Rs459
       //Time To Flight 6.19:55:58.7112418
     }
     else
     {
       return "Flight Already Left";
```

```
}
}
else
{
    return "Flight Not Found";
}

public static void Main()
{
    Console.Write("Enter the Flight Number: ");
    string flightNo = Console.ReadLine();
    Console.WriteLine(FlightStatus(flightNo));
}
```

Output:



3. ProductDetails Program Code:

```
using System;
using System.Collections.Generic;
```

```
public class Program
public static void Main()
List<Product> list = new List<Product>();
list.Add(new Product("Apple", "Prod1234", DateTime.Now, 200));
list.Add(new Product("Hair Trimmer", "Prod1276", DateTime.Now, 1200));
list.Add(new Product("Steel Box", "Prod1209", DateTime.Now, 400));
list.Add(new Product("Rope", "Prod1213", DateTime.Now, 99));
list.Add(new Product("Chair", "Prod1342", DateTime.Now, 309));
Console.WriteLine(String.Format("{0,-15}{1,-15}{2,-25}{3,-15}", "Product Name",
"Serial Number", "Purchase Date", "Purchase Cost"));
list.ForEach( a => Console.WriteLine(a));
}
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()
```

```
return String.Format("{0,-15}{1,-15}{2,-25}{3,-15}", _productName, _serialNumber, _purchaseDate.ToString(@"yyyy:mm:dd"), _cost); }
```

Output:

