

## DAY 3

### C#

#### 1. OPENABLEINTERFACE

##### CODE:

```
using System;

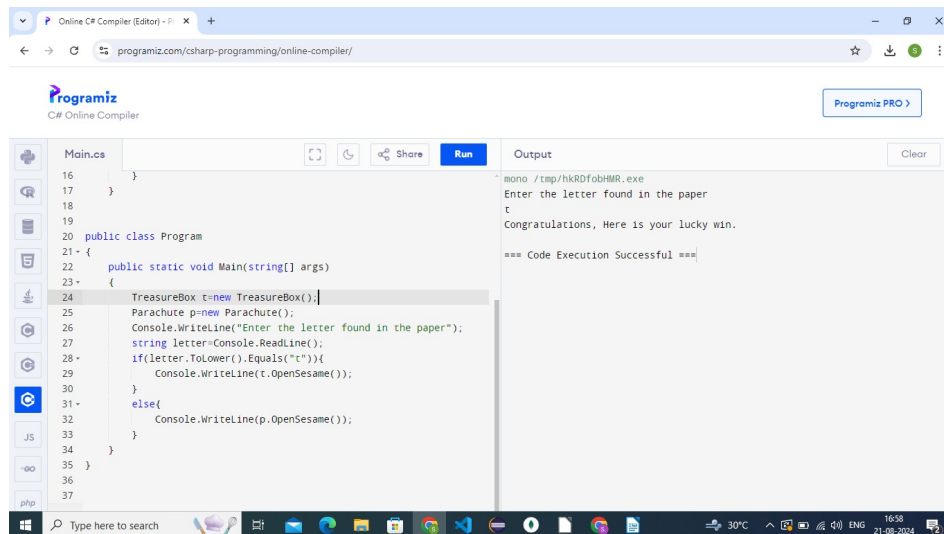
public interface IOpenable{
    string OpenSesame();
}

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)
    {
        TreasureBox t=new TreasureBox();
        Parachute p=new Parachute();
        Console.WriteLine("Enter the letter found in the paper");
        string letter=Console.ReadLine();
        if(letter.ToLower().Equals("t")){
            Console.WriteLine(t.OpenSesame());
        }
        else{
            Console.WriteLine(p.OpenSesame());
        }
    }
}
```

## OUTPUT:



Online C# Compiler (Editor) - P x +

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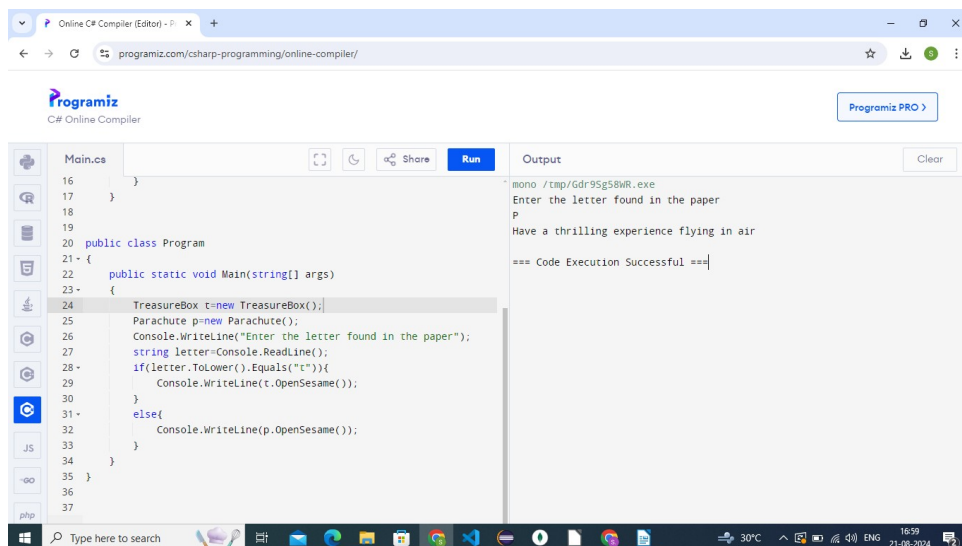
Main.cs

```
16 }
17 }
18
19
20 public class Program
21 {
22     public static void Main(string[] args)
23     {
24         TreasureBox t=new TreasureBox();
25         Parachute p=new Parachute();
26         Console.WriteLine("Enter the letter found in the paper");
27         string letter=Console.ReadLine();
28         if(letter.ToLower().Equals("t")){
29             Console.WriteLine(t.OpenSesame());
30         }
31         else{
32             Console.WriteLine(p.OpenSesame());
33         }
34     }
35 }
36
37
```

Output

```
mono /tmp/hkR0fobHMR.exe
Enter the letter found in the paper
t
Congratulations, Here is your lucky win.

=== Code Execution Successful ===
```



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Main.cs

```
16 }
17 }
18
19
20 public class Program
21 {
22     public static void Main(string[] args)
23     {
24         TreasureBox t=new TreasureBox();
25         Parachute p=new Parachute();
26         Console.WriteLine("Enter the letter found in the paper");
27         string letter=Console.ReadLine();
28         if(letter.ToLower().Equals("t")){
29             Console.WriteLine(t.OpenSesame());
30         }
31         else{
32             Console.WriteLine(p.OpenSesame());
33         }
34     }
35 }
36
37
```

Output

```
mono /tmp/Gdr95g58wR.exe
Enter the letter found in the paper
p
Have a thrilling experience flying in air

=== Code Execution Successful ===
```

## 2. FLIGHT STATUS

### CODE:

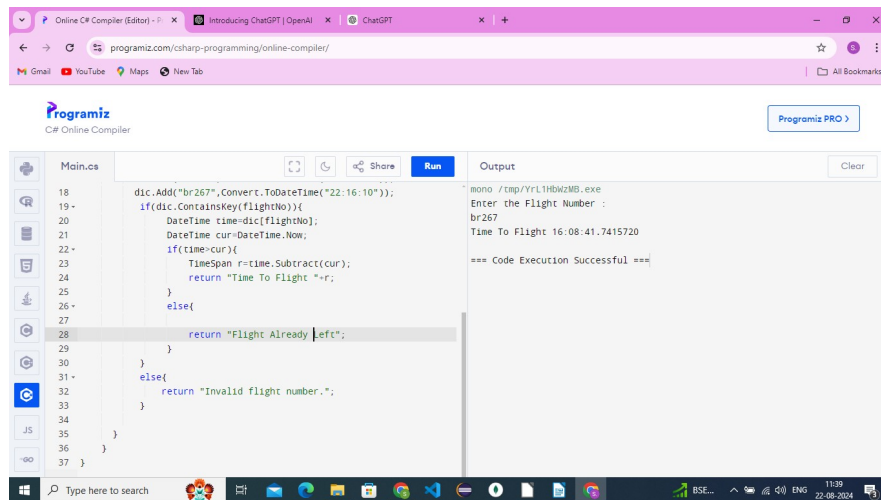
```
using System;
using System.Collections.Generic;

public class HelloWorld
{
    public static void Main(string[] args)
    {
        Console.WriteLine("Enter the Flight Number : ");
        string flight_no=Console.ReadLine();

        Console.WriteLine(flightStatus(flight_no));

        static string flightStatus(string flightNo){
            Dictionary<string,DateTime>dic=new Dictionary<string,DateTime>();
            dic.Add("zw346",Convert.ToDateTime("11:15:50"));
            dic.Add("br267",Convert.ToDateTime("22:16:10"));
            if(dic.ContainsKey(flightNo)){
                DateTime time=dic[flightNo];
                DateTime cur=DateTime.Now;
                if(time>cur){
                    TimeSpan r=time.Subtract(cur);
                    return "Time To Flight "+r;
                }
            }
            else{
                return "Flight Already Left";
            }
        }
        else{
            return "Invalid flight number.";
        }
    }
}
```

## OUTPUT:



## 3. PRODUCT DETAILS

### CODE:

```
using System;
using System.Collections.Generic;
public class Program
{
    public static void Main(string[] args)
    {
        List<Product> p = new List<Product>();
        p.Add(new Product("HairTrimmer", "HT123", new DateTime(2017, 2, 10), 800));
        p.Add(new Product("Steel Box", "SB231", new DateTime(2018, 4, 11), 250));
        p.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 res in p)
        {
            Console.WriteLine(res.ToString());
        }
    }
}

public class Product{
    public string _productName{set; get;}
    public string _serialNumber{set; get;}
    public DateTime _purchaseDate{set; get;}
```

```

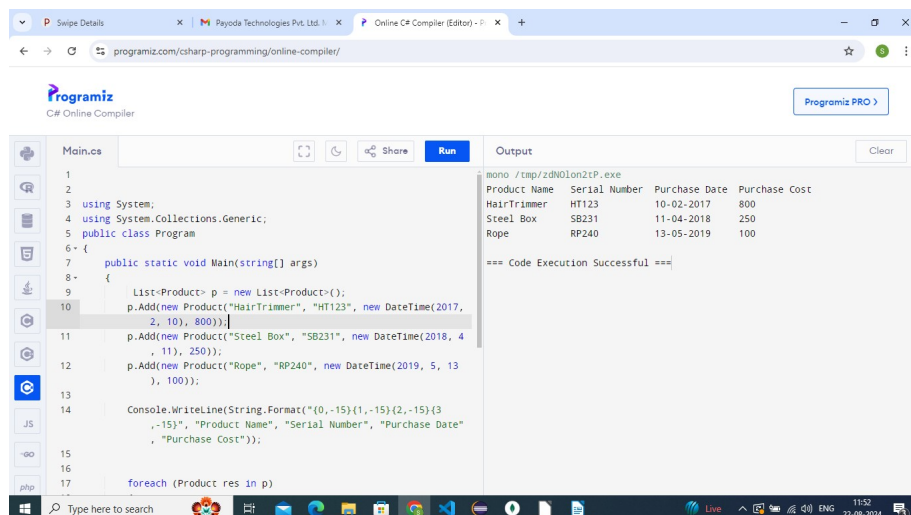
public double _cost{set; get;}

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()
{
    string Date = _purchaseDate.ToString("dd-MM-yyyy");
    return $"{_productName,-15}{_serialNumber,-15}{Date,-15}{_cost,-15}";
}
}

```

## OUTPUT:



The screenshot shows the Programiz C# Online Compiler interface. The code in the editor is as follows:

```

1
2
3 using System;
4 using System.Collections.Generic;
5 public class Program
6 {
7     public static void Main(string[] args)
8     {
9         List<Product> p = new List<Product>();
10        p.Add(new Product("HairTrimmer", "HT123", new DateTime(2017,
11        2, 10), 800));
12        p.Add(new Product("Steel Box", "SB231", new DateTime(2018, 4
13        , 11), 250));
14        p.Add(new Product("Rope", "RP240", new DateTime(2019, 5, 13
15        ), 100));
16
17        Console.WriteLine(String.Format("{0,-15}{1,-15}{2,-15}{3
18        ,-15}", "Product Name", "Serial Number", "Purchase Date"
19        , "Purchase Cost"));
20
21        foreach (Product res in p)

```

The output window shows the following table:

Product Name	Serial Number	Purchase Date	Purchase Cost
HairTrimmer	HT123	10-02-2017	800
Steel Box	SB231	11-04-2018	250
Rope	RP240	13-05-2019	100

Below the table, the output window displays "=== Code Execution Successful ===".