

```
Program.cs | Medicine.cs | MedicineUtility.cs | 
1 namespace PharmaDetail //DO NOT change the namespace name
2 {
3     public class Program //DO NOT change the class name
4     {
5         public static void Main(string[] args) //DO NOT change the method signature
6         {
7             AddMedicineTest addMedicineObj = new AddMedicineTest(); // Do not remove this line , Implementation for Add functionality is given in backend
8             addMedicineObj.AddMedicineDetails("sample.xml"); // You can display the data from this sample file
9
10            //Implement your code here
11            MedicineUtility utility= new MedicineUtility();
12            Medicine medicine = utility.GetAllMedicineDetails("sample.xml");
13            if(medicine!=null){
14                Console.WriteLine("Id\tName\tCost\tQuantity\tWeight");
15                Console.WriteLine($"{medicine.Id}\t{medicine.Name}\t{medicine.Cost}\t{medicine.QuantityInStock}\t{medicine.Weight}");
16            }
17            else
18            {
19                Console.WriteLine("Failed to read medicine details from the file.");
20            }
21        }
22    }
23 }
24
```

```
Program.cs | Medicine.cs | MedicineUtility.cs | Action Restricted
1 using System.Xml.Serialization;
2 namespace PharmaDetail //DO NOT change the namespace name
3 {
4     [Serializable]
5     public class Medicine //Make the class serializable. DO NOT change the class name
6     {
7         //Implement your code here
8
9         public int Id{get;set;}
10
11         public string Name{get;set;}
12
13         public double Cost{get;set;}
14
15         public int QuantityInStock{get;set;}
16
17         public float Weight{get;set;}
18     }
19 }
20
```

```
Program.cs | Medicine.cs | MedicineUtility.cs | Action Restricted
1 using System.Xml.Serialization;
2
3 namespace PharmaDetail //DO NOT change the namespace name
4 {
5     public class MedicineUtility //DO NOT change the class name
6     {
7         //Implement your code here
8         public Medicine GetAllMedicineDetails(string fileName)
9         {
10             try
11             {
12                 XmlSerializer serializer= new XmlSerializer(typeof(Medicine));
13                 using (FileStream fileStream= new FileStream(fileName, FileMode.Open))
14                 {
15                     return (Medicine)serializer.Deserialize(fileStream);
16                 }
17             }
18             catch(Exception ex)
19             {
20                 Console.WriteLine("Error: "+ ex.Message);
21                 return null;
22             }
23         }
24     }
25 }
```

Program.cs ▾Event.cs ▾EventUtility.cs ▾

1 namespace EventManagement //DO NOT change the namespace name  
2 {  
3 public class Program //DO NOT change the class name  
4 {  
5 public static void Main(string[] args) //DO NOT change the method signature  
6 {  
7 //Implement your code here  
8 Event eventObj= new Event();  
9  
10 Console.WriteLine("Enter Event's Name");  
11 eventObj.Name= Console.ReadLine();  
12  
13 Console.WriteLine("Enter Event's Description");  
14 eventObj.Description= Console.ReadLine();  
15  
16 Console.WriteLine("Enter Event's Type");  
17 eventObj.Type= Console.ReadLine();  
18  
19 Console.WriteLine("Enter the name of the person who Created the event");  
20 eventObj.CreatedBy= Console.ReadLine();  
21  
22 Console.WriteLine("Enter the location");  
23 eventObj.Location= Console.ReadLine();  
24  
25 Console.WriteLine("Enter the Event Starting Date (dd/MM/yyyy)");  
26 eventObj.StartDate= DateTime.ParseExact(Console.ReadLine(),"dd/MM/yyyy",null);  
27 Console.WriteLine("Enter the Event Ending Date (dd/MM/yyyy)");  
28 eventObj.EndDate= DateTime.ParseExact(Console.ReadLine(),"dd/MM/yyyy",null);  
29  
30 Console.WriteLine("Enter the FileName in '.xml' format");  
31 string fileName= Console.ReadLine();  
32 EventUtility eventUtility = new EventUtility();  
33 eventUtility.AddEventDetails(eventObj, fileName);  
34 }  
35 }  
36 }  
37

Action Restricted. This action is r

Program.cs ▾Event.cs ▾EventUtility.cs ▾

1 using System.IO;  
2 using System.Xml.Serialization;  
3 namespace EventManagement //DO NOT change the namespace name  
4 {  
5 [Serializable]  
6 public class Event //Make the class serializable. DO NOT change the class name  
7 {  
8 //Implement your code here  
9 public string Name {get; set;}  
10 public string Description {get; set;}  
11 public string Type {get; set;}  
12 public string CreatedBy {get; set;}  
13 public string Location {get; set;}  
14 //[XmlElement(DataType=="date")]  
15 public DateTime StartDate {get; set;}  
16 //[XmlElement(DataType=="date")]  
17 public DateTime EndDate {get; set;}  
18 }  
19 }  
20

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```
Program.cs ▾ Event.cs ▾ EventUtility.cs ▾
1 using System.Runtime.Serialization;
2 using System.Xml.Serialization;
3
4 namespace EventManagement //DO NOT change the namespace name
5 {
6     public class EventUtility //DO NOT change the class name
7     {
8         //Implement your code here
9         public void AddEventDetails(Event eventObj, string fileName)
10        {
11            try{
12                XmlSerializer serializer= new XmlSerializer(typeof(Event));
13                using (StreamWriter writer= new StreamWriter(fileName))
14                {
15                    serializer.Serialize(writer, eventObj);
16                }
17                Console.WriteLine("Event Details Added Successfully");
18            }
19            catch
20            {
21                Console.WriteLine("Event Details Cannot be added");
22            }
23        }
24    }
25 }
26 }
27 }
```

```
Program.cs ▾ BillDetails.cs ▾ EBSERVICE.cs ▾
1 namespace ElectricityBill //DO NOT change the namespace name
2 {
3     public class Program //DO NOT change the class name
4     {
5         public static void Main(string[] args) //DO NOT change the method signature
6         {
7             AddEBDetailsTest testObj = new AddEBDetailsTest(); // Do not remove this line , Implementation for Add func
8             testObj.AddEBDetails("sample.txt"); // You can display the data from this sample file
9
10            //Implement your code here
11            EBSERVICE ebService = new EBSERVICE();
12            BillDetails billDetails= ebService.ReadEBDetails("sample.txt");
13            if(billDetails!=null)
14            {
15                Console.WriteLine("\nConsumerNumber");
16                Console.WriteLine("ConsumerName");
17                Console.WriteLine("UnitsConsumed");
18                Console.WriteLine("BillAmount");
19                Console.WriteLine("\n{0}\n{1}\n{2}\n{3}",
20                billDetails.ConsumerNumber,
21                billDetails.ConsumerName,
22                billDetails.UnitsConsumed,
23                billDetails.BillAmount);
24            }
25        }
26    }
27 }
28 }
```

```
Program.cs ▾ BillDetails.cs ▾ EBSERVICE.cs ▾
1 namespace ElectricityBill //DO NOT change the namespace name
2 {
3     [Serializable]
4     public class BillDetails //Make the class serializable. DO NOT change the class name
5     {
6         //Implement your code here
7         public string ConsumerNumber{get; set;}
8         public string ConsumerName{get; set;}
9         public int UnitsConsumed{get;set;}
10        public double BillAmount{get; set;}
11    }
12 }
13 }
```

```
Program.cs BillDetails.cs EService.cs
1 using System.Runtime.Serialization;
2 using System.Runtime.Serialization.Formatters.Binary;
3
4 namespace ElectricityBill //DO NOT change the namespace name
5 {
6     public class EService //DO NOT change the class name
7     {
8         //Implement your code here
9         public BillDetails ReadEBDetails(string fileName)
10        {
11            try{
12                using (FileStream fileStream = new FileStream(fileName, FileMode.Open, FileAccess.Read))
13                {
14                    IFormatter formatter= new BinaryFormatter();
15                    return (BillDetails)formatter.Deserialize(fileStream);
16                }
17            }
18            catch(Exception ex)
19            {
20                Console.WriteLine("Error: " + ex.Message);
21                return null;
22            }
23        }
24    }
25 }
26
```

```
Program.cs Shipment.cs ShipmentService.cs
1 namespace CargoManagementSystem //DO NOT change the namespace name
2 {
3     public class Program //DO NOT change the class name
4     {
5         public static void Main(string[] args) //DO NOT change the method signature
6         {
7             //Implement your code here
8             Shipment shipment= new Shipment();
9             Console.WriteLine("Enter the shipment id");
10            shipment.ShipmentId= int.Parse(Console.ReadLine());
11
12            Console.WriteLine("Enter the customer id");
13            shipment.CustomerId= Console.ReadLine();
14
15            Console.WriteLine("Enter start location");
16            shipment.StartLocation= Console.ReadLine();
17
18            Console.WriteLine("Enter end location");
19            shipment.EndLocation= Console.ReadLine();
20
21            Console.WriteLine("Enter expected start date");
22            shipment.ExpectedStartDate= DateTime.Parse(Console.ReadLine());
23
24            Console.WriteLine("Enter actual start date");
25            shipment.ActualStartDate= DateTime.Parse(Console.ReadLine());
26
27            Console.WriteLine("Enter expected end date");
28            shipment.ExpectedEndDate= DateTime.Parse(Console.ReadLine());
29
30            Console.WriteLine("Enter actual end date");
31            shipment.ActualEndDate= DateTime.Parse(Console.ReadLine());
32
33            Console.WriteLine("Enter file name");
34            string fileName= Console.ReadLine();
35            ShipmentService service= new ShipmentService();
36            service.AddShipmentDetails(shipment, fileName);
37        }
38    }
39 }
40
```

```
Program.cs ▾ Shipment.cs ▾ ShipmentService.cs ▾
1 namespace CargoManagementSystem //DO NOT change the namespace name
2 {
3     [Serializable]
4     public class Shipment //Make the class serializable. DO NOT change the class
5     {
6         //Implement your code here
7         public int ShipmentId{get; set;}
8         public string CustomerId{get; set;}
9         public string StartLocation{get; set;}
10        public string EndLocation{get; set;}
11        public DateTime ExpectedStartDate{get; set;}
12        public DateTime ActualStartDate{get; set;}
13        public DateTime ExpectedEndDate{get; set;}
14        public DateTime ActualEndDate{get; set;}
15    }
16 }
17
```

```
Program.cs ▾ Shipment.cs ▾ ShipmentService.cs ▾
1 using System.Runtime.Serialization.Formatters.Binary;
2 using System.Runtime.Serialization;
3
4 namespace CargoManagementSystem //DO NOT change the namespace name
5 {
6     public class ShipmentService //DO NOT change the class name
7     {
8         //Implement your code here
9         public void AddShipmentDetails(Shipment shipmentobj, string fileName)
10        {
11            try
12            {
13                using (FileStream fileStream=new FileStream(fileName, FileMode.Create))
14                {
15                    BinaryFormatter formatter= new BinaryFormatter();
16                    formatter.Serialize(fileStream, shipmentobj);
17                }
18                Console.WriteLine("Shipment details added successfully");
19            }
20            catch(Exception ex)
21            {
22                Console.WriteLine("Error: "+ ex.Message);
23            }
24        }
25    }
26 }
27
```

Program.cs MyFile.txt Action Restricted. This action is not allowed in the editor. OK

```
1 namespace FileIO //DO NOT change the namespace name
2 {
3     public class Program //DO NOT change the class name
4     {
5         //Implement your method here
6         public void WriteOnFile(string fileName, string text)
7         {
8             File.WriteAllText(fileName, text);
9         }
10        public void AppendFile (string fileName, string text)
11        {
12            File.AppendAllText(fileName, " " + text);
13        }
14        public string[] ReadFile(string fileName)
15        {
16            return File.ReadAllLines(fileName);
17        }
18
19        public static void Main(string[] args) //DO NOT change the method signature
20        {
21            //Implement your code here
22            Program program= new Program();
23            bool exit= false;
24            while(!exit)
25            {
26                Console.WriteLine("1. Write on file");
27                Console.WriteLine("2. Append file");
28                Console.WriteLine("3. Read file");
29                Console.WriteLine("Enter your choice");
30
31                if(!int.TryParse(Console.ReadLine(), out int choice))
32                {
33                    Console.WriteLine("Invalid input. Please enter a number between 1 and 4.");
34                    continue;
35                }
36                Console.WriteLine("Enter the filename");
37                string fileName= Console.ReadLine();
38                switch(choice)
39                {
40                    case 1:
41                        // Console.WriteLine("Enter the filename");
42                        // string fileName= Console.ReadLine();
43                        Console.WriteLine("Enter the text to write");
44                        string text= Console.ReadLine();
45                        program.WriteOnFile(fileName, text);
```

```
39
40                case 2:
41                    // Console.WriteLine("Enter the file name");
42                    // fileName=Console.ReadLine();
43                    Console.WriteLine("Enter the text to append");
44                    text= Console.ReadLine();
45                    program.AppendFile(fileName, text);
46                    break;
47                case 3:
48                    // Console.WriteLine("Enter the file to read");
49                    // fileName= Console.ReadLine();
50                    string[] content= program.ReadFile(fileName);
51                    Console.WriteLine(string.Join(" ", content));
52                    break;
53                default:
54                    Console.WriteLine("Invalid choice. Please enter a number between 1 and 3.");
55                    break;
56            }
57        }
58    }
59 }
60
61
62
63
64
65
66
67
68
69
70 }
```