

## Question 5:

### Aim:

The aim of this program is to gather and display detailed information about a patient using a Patient class. The program collects input from the user and then displays the collected information.

### PROGRAM:

```
using System;

class Patient
{
    // Data members to store patient information
    public string Name { get; set; }
    public DateTime DateOfAdmission { get; set; }
    public int Age { get; set; }
    public string Disease { get; set; }
    public DateTime DateOfDischarge { get; set; }
    public double TotalBillsPaid { get; set; }

    // Method to get patient details
    public void GetPatientInfo()
    {
        Console.Write("Enter patient name: ");
        Name = Console.ReadLine();

        Console.Write("Enter date of admission (yyyy-mm-dd): ");
        DateOfAdmission = DateTime.Parse(Console.ReadLine());

        Console.Write("Enter age of patient: ");
        Age = int.Parse(Console.ReadLine());

        Console.Write("Enter disease: ");
        Disease = Console.ReadLine();

        Console.Write("Enter date of discharge (yyyy-mm-dd): ");
        DateOfDischarge = DateTime.Parse(Console.ReadLine());

        Console.Write("Enter total bills paid: ");
        TotalBillsPaid = double.Parse(Console.ReadLine());
    }

    // Method to display patient details
    public void DisplayPatientInfo()
    {
        Console.WriteLine("\n--- Patient Details ---");
        Console.WriteLine($"Name: {Name}");
        Console.WriteLine($"Date of Admission: {DateOfAdmission.ToShortDateString()}");
        Console.WriteLine($"Age: {Age}");
        Console.WriteLine($"Disease: {Disease}");
    }
}
```

```

        Console.WriteLine($"Date of Discharge:
{DateOfDischarge.ToShortDateString()}");
        Console.WriteLine($"Total Bills Paid: {TotalBillsPaid:C}");
    }
}

class Hospital
{
    static void Main(string[] args)
    {
        // Create an instance of the Patient class
        Patient patient = new Patient();

        // Call the method to get patient information
        patient.GetPatientInfo();

        // Call the method to display patient information
        patient.DisplayPatientInfo();
    }
}

```

#### **Input:**

```

Enter patient name: John Doe
Enter date of admission (yyyy-mm-dd): 2023-08-15
Enter age of patient: 45
Enter disease: Hypertension
Enter date of discharge (yyyy-mm-dd): 2023-09-01
Enter total bills paid: 1500.75

```

#### **Output:**

```

--- Patient Details ---
Name: John Doe
Date of Admission: 08/15/2023
Age: 45
Disease: Hypertension
Date of Discharge: 09/01/2023
Total Bills Paid: $1,500.75

```

Main.cs	Output
<pre>31:         Console.WriteLine(\$"Total Bills Paid: {TotalBillsPaid:C}"); 32:         TotalBillsPaid = double.Parse(Console.ReadLine()); 33:     } 34: 35:     // Method to display patient details 36:     public void DisplayPatientInfo() 37:     { 38:         Console.WriteLine("\n--- Patient Details ---"); 39:         Console.WriteLine(\$"Name: {Name}"); 40:         Console.WriteLine(\$"Date of Admission: {DateOfAdmission 41:             .ToShortDateString()}"); 42:         Console.WriteLine(\$"Age: {Age}"); 43:         Console.WriteLine(\$"Disease: {Disease}"); 44:         Console.WriteLine(\$"Date of Discharge: {DateOfDischarge 45:             .ToShortDateString()}"); 46:         Console.WriteLine(\$"Total Bills Paid: {TotalBillsPaid:C}"); 47:     } 48: 49:     class Hospital 50:     { 51:     { 52:         // Create an instance of the Patient class 53:         Patient patient = new Patient(); 54: 55:         // Call the method to get patient information 56:         patient.GetPatientInfo(); 57: 58:         // Call the method to display patient information 59:         patient.DisplayPatientInfo(); 60:     } 61: } 62: </pre>	<pre>mono /tmp/2QUA2UghB0.exe Enter patient name: John Doe Enter date of admission (yyyy-mm-dd): 2023-08-15 Enter age of patient: 45 Enter disease: Hypertension Enter date of discharge (yyyy-mm-dd): 2023-09-01 Enter total bills paid: 1500.751500.75  --- Patient Details --- Name: John Doe Date of Admission: 08/15/2023 Age: 45 Disease: Hypertension Date of Discharge: 09/01/2023 Total Bills Paid: ?1,500.75  === Code Execution Successful ===</pre>