OOPS EXAM

To create a class named Patient having properties like PatientID,Age and methods like

a.Equals() -> to check if the age of both the patient is equal

b.NotEquals() -> to check if the age of both the patient is not equal

c.GreaterThan() -> to check if the age of the patient is greater than age of the other patient

d.GreaterThanEquals() -> to check if the age of the patient is greater than or equal age of the other patient

e.LessThan() -> to check if the age of the patient is less than age of the other patient

f.LessThanEquals() -> to check if the age of the patient is less than or equals age of the other patient

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```csharp
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace ConsoleApp26
{

    class Patient
    {
        private string patientid;
        private int age;

        public string PatientID
        {
         get { return patientid; }
         set { patientid =  value; }
         }

        public int Age
        {
         get { return age; }
         set { age = value; }
         }

        public Patient(string patientid, int age)
        {
            this.patientid = patientid;
            this.age = age;
        }
        public bool Equals(Patient other)
        {
            return this.age == other.age;

        }
        public bool NotEquals(Patient other)
        {
            return this.age != other.age;
        }
        public bool GreaterThan(Patient other)
        {
            return this.age > other.age;
```

```csharp
        }
        public bool GreaterThanEquals(Patient other)
        {
            return this.age >= other.age;
        }
        public bool LessThan(Patient other)
        {
            return this.age < other.age;
        }
        public bool LessThanEquals(Patient other)
        {
            return this.age <= other.age;
        }
    }
    internal class Program
    {
        static void Main(string[] args)
        {
            Patient p1 = new Patient("P001", 45);
            Patient p2 = new Patient("P002", 50);
            Console.WriteLine(p1.Equals(p2)); // Output: False
            Console.WriteLine(p1.GreaterThan(p2)); // Output: False
            Console.WriteLine(p1.LessThanEquals(p2)); // Output: True
        }
    }
}
```