Answer on Question #46328, Programming, C#

Problem:

The development team of SoftSols Inc. analyzes the source code of the existing software and notes the following observations: The software contains a private class, named bookTickets, that contains the methods used to perform ticket bookings for various flights. There is no class or function that can be used to check the maintenance details of FlyHigh's aircrafts. Based on the preceding observations, the development team decides to perform the following tasks: Reuse the functions of the bookTickets class in a new class, named bookETicket, to add the feature of eticket booking. Create a new class named viewMaintenance that allows the maintenance personnel of FlyHigh Airlines to view the maintenance details of aircrafts. Write the code snippet that the development team should use to accomplish each of the preceding tasks.

Solution:

```
CODE (Program.cs)
using System;
public class Program
    private class bookTickets
        public void Book()
            Console.WriteLine("The ticket is booked!");
    }
    // Inheritance
    private class bookETicket : bookTickets
        public void ETicketBooking()
            Console.WriteLine("The e-ticket is booked!");
    }
    public static void Main()
        // bookTicket
        bookETicket ticketsBooker = new bookETicket();
        ticketsBooker.Book();
        ticketsBooker.ETicketBooking();
        // viewMaintenance
        viewMaintenance mainViewer = new viewMaintenance("name", "password");
        mainViewer.View();
        Console.WriteLine("Hello, World!");
        Console.ReadLine();
    }
}
using System;
CODE (viewMaintenance.cs)
public class viewMaintenance
    bool logined;
    private bool check(string name, string password)
        return true;
    public viewMaintenance(string name, string password)
```

```
{
    if (check(name, password))
    {
        logined = true;
    }
    else
    {
        logined = true;
    }
}
public void View() {
    if (logined)
    {
        Console.WriteLine("Information for maintenance personnel!");
    }
}
```

OUTPUT

```
The ticket is booked!
The e-ticket is booked!
Information for maintenance personnel!
Hello, World!
-
```