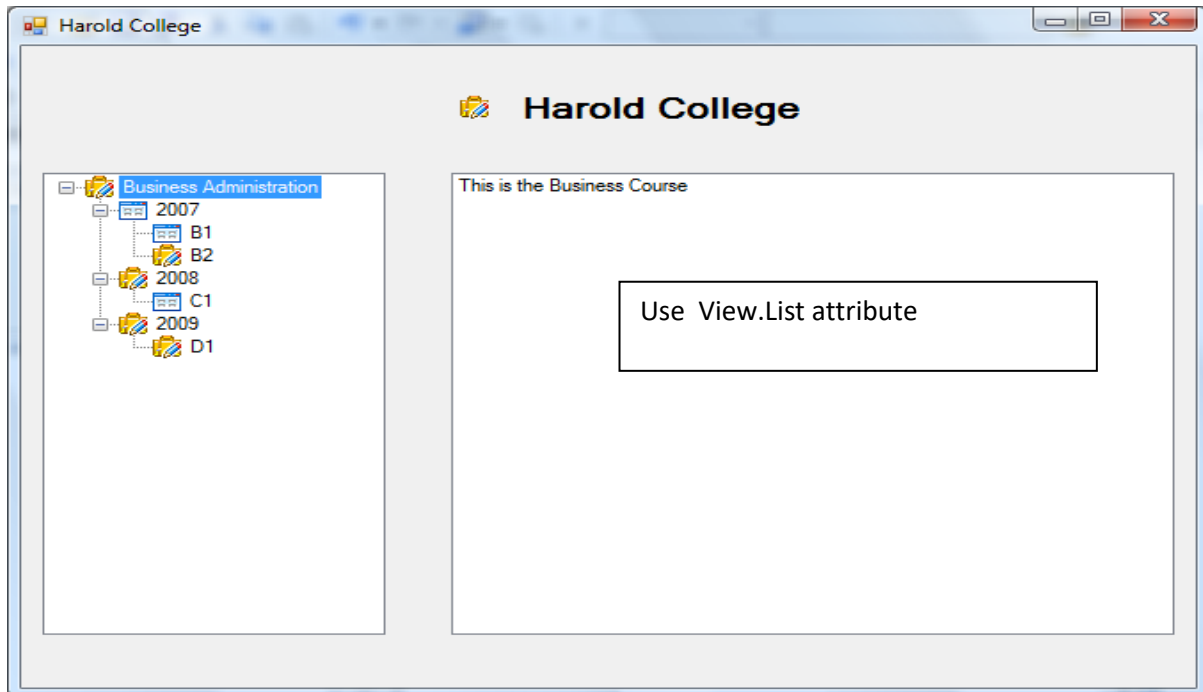
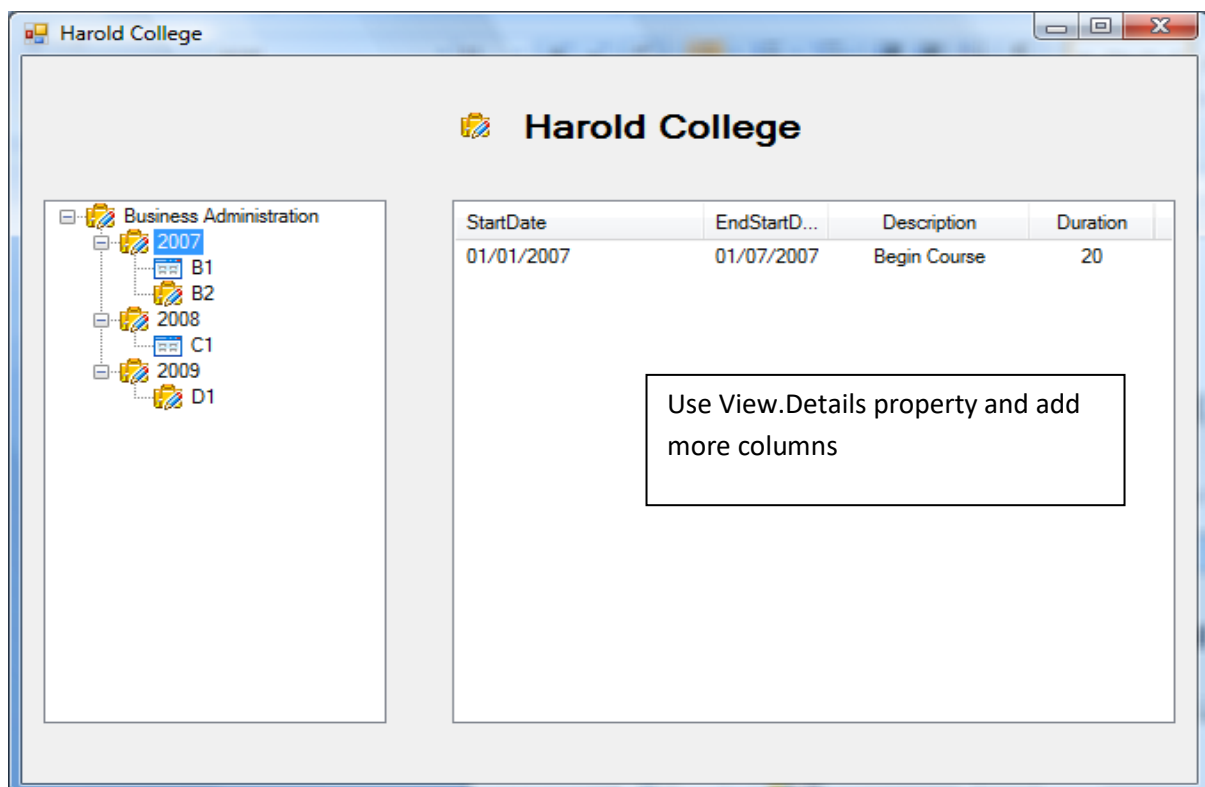


### Assignment 3 : ( Advanced Controls )

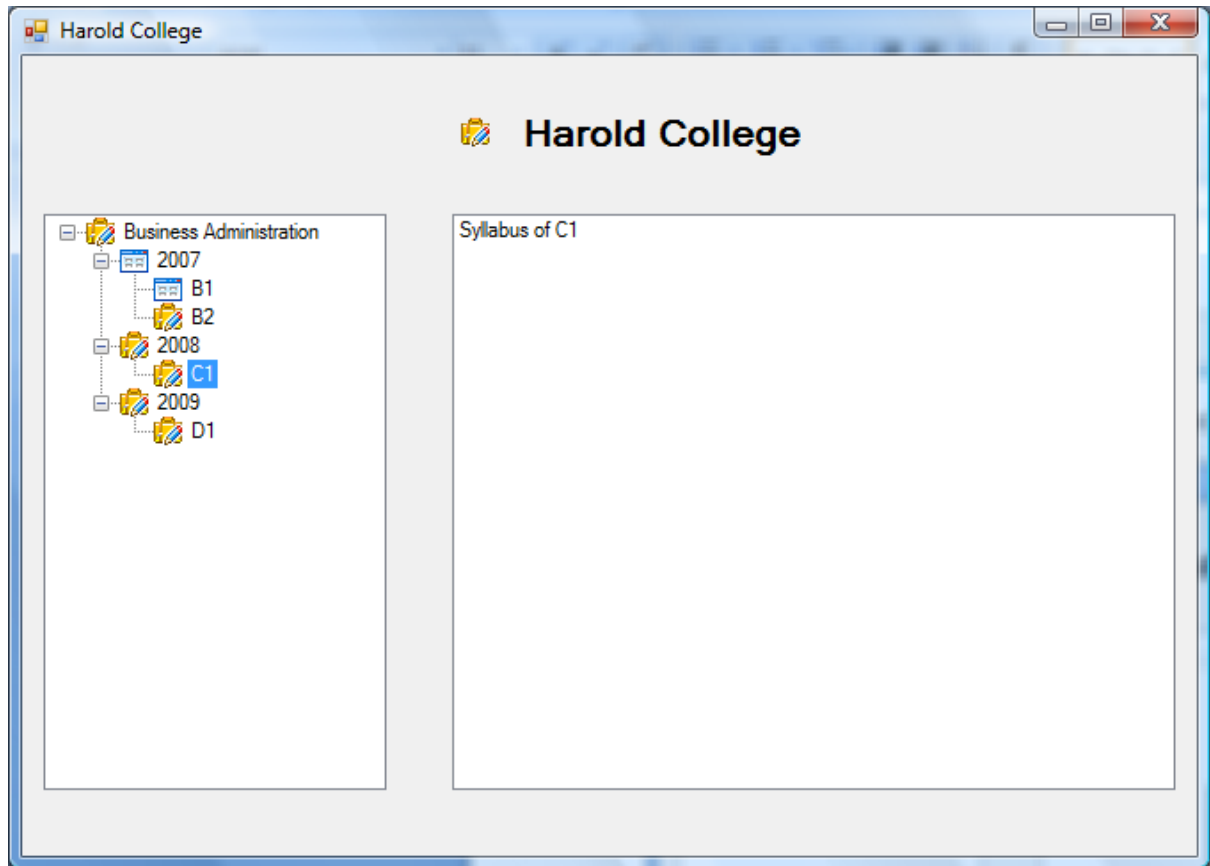
1. Design UI as picture bellow
2. When click root node – UI as bellow :



- Khi click vào nút 2007 , 2008 , 2009 ( Course) giao diện sẽ như sau :



- Click to B1, C1 , D1 ( Subject ) UI as :



**Hint :** Create 2 class Course and Subject and add to Tag property of a node ( Node of TreeView)

### Course class

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

namespace HaroldCollege
{
    class Course
    {
        private string startDate;
        private string endDate;
        private string description;
        int duration;

        public Course(string s, string e, string d, int dura)
        {
            startDate = s; endDate = e; description = d; duration = dura;
        }
        public string StartDate
        {
            get { return startDate; }
        }
    }
}
```

```
        public string EndDate
        {
            get { return endDate; }
        }
        public string Description
        {
            get { return description; }
        }
        public int Duration
        {
            get { return duration; }
        }
    }
}
//-----
```

### **Subject class**

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

namespace HaroldCollege
{
    class Subject
    {
        private string syllabus;

        public Subject(string s)
        {
            syllabus = s;
        }
        public string Syllabus
        {
            get { return syllabus; }
        }
    }
}
```

### **Main class :**

```
public Harold()
{
    InitializeComponent();
    BuildTree();
}
public void BuildTree()
{
    this.tvCourse.ExpandAll();
    Course[] Y200X = { new Course("01/01/2007", "01/07/2007",
"Begin Course", 20),
                                new Course("01/01/2008", "01/07/2008",
"Advanced Course", 22),
                                new Course("01/01/2009", "01/07/2009",
"Final Course", 23)};

    for (int i = 0; i < this.tvCourse.Nodes[0].Nodes.Count; i++ )
        this.tvCourse.Nodes[0].Nodes[i].Tag = Y200X[i];
}
```

```

        Subject A = new Subject("Syllabus of B1");
        Subject B = new Subject("Syllabus of B2");
        Subject C = new Subject("Syllabus of C1");
        Subject D = new Subject("Syllabus of D1");

        this.tvCourse.Nodes[0].Nodes[0].Nodes[0].Tag = A;
        this.tvCourse.Nodes[0].Nodes[0].Nodes[1].Tag = B;
        this.tvCourse.Nodes[0].Nodes[1].Nodes[0].Tag = C;
        this.tvCourse.Nodes[0].Nodes[2].Nodes[0].Tag = D;
    }
    private void treeView1_AfterSelect(object sender, TreeViewEventArgs
e)
    {
        this.listView1.Items.Clear();
        this.listView1.Columns.Clear();

        // nut goc
        if (e.Node == this.tvCourse.Nodes[0])
        {
            this.listView1.View = View.List;
            this.listView1.Items.Add(new ListViewItem("This is the
Business Course" ));
        }
        else if (e.Node.Text.StartsWith("2"))
        {
            this.listView1.Columns.Add("StartDate", 140,
HorizontalAlignment.Center);
            this.listView1.Columns.Add("EndStartDate", 70,
HorizontalAlignment.Center);
            this.listView1.Columns.Add("Description", 70,
HorizontalAlignment.Center);
            this.listView1.Columns.Add("Duration", 70,
HorizontalAlignment.Center);
            this.listView1.View = View.Details;

            Course tmp = (Course)e.Node.Tag;
            ListViewItem item = new ListViewItem(tmp.StartDate);
            item.SubItems.Add(tmp.EndDate);
            item.SubItems.Add(tmp.Description);
            item.SubItems.Add(tmp.Duration.ToString());
            this.listView1.Items.Add(item);
        }
        else
        {
            Subject tmp = (Subject)e.Node.Tag;
            this.listView1.View = View.List;
            this.listView1.Items.Add(new ListViewItem(tmp.Syllabus));
        }
    }
}

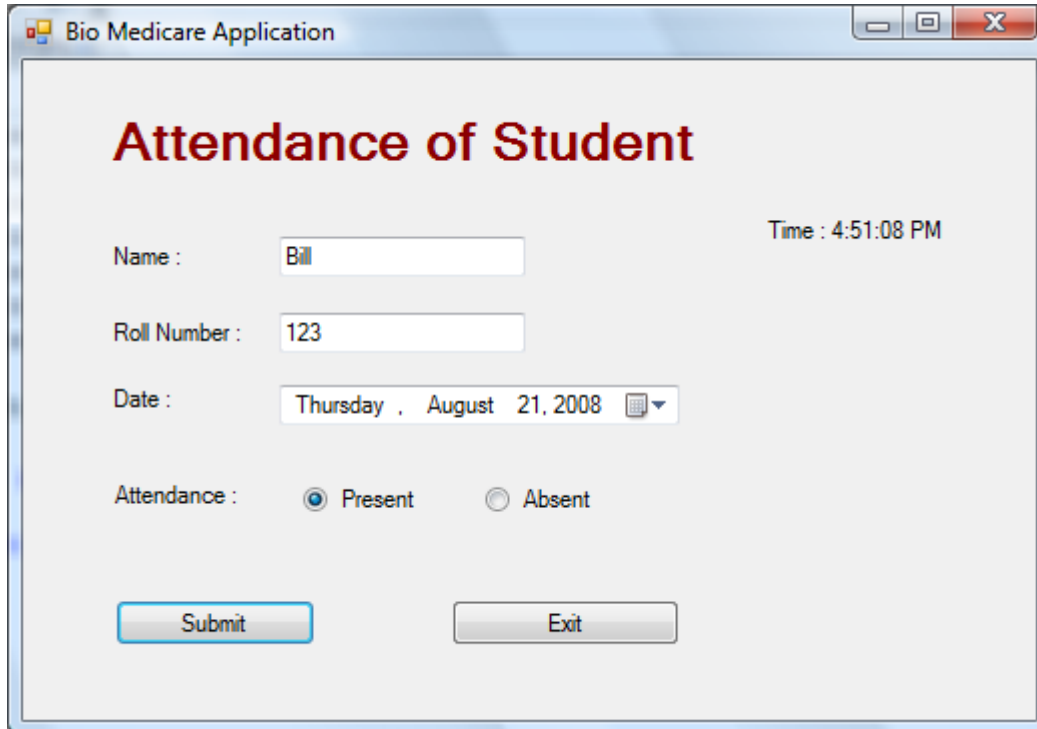
```

**Marks :**

- 30% UI
- 70% process.

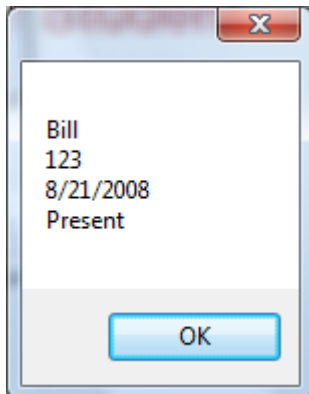
## Assignment 4 : ( Date Components )

1. Design UI as picture bellow :



The screenshot shows a Windows-style application window titled "Bio Medicare Application". Inside the window, the title "Attendance of Student" is displayed in a large, bold, red font. Below the title, there are several input fields and controls: a "Name :" label followed by a text box containing "Bill"; a "Roll Number :" label followed by a text box containing "123"; a "Date :" label followed by a date picker showing "Thursday , August 21, 2008"; and an "Attendance :" label followed by two radio buttons, "Present" (which is selected) and "Absent". In the top right corner of the window, the time "Time : 4:51:08 PM" is displayed. At the bottom of the window, there are two buttons: "Submit" and "Exit".

- When enter data and click Submit (after validation – roll number 3 digit ) app will displayed a messageBox bellow :



The screenshot shows a small Windows-style dialog box titled "MessageBox". It contains a text area with the following text: "Bill", "123", "8/21/2008", and "Present". At the bottom of the dialog box, there is an "OK" button.

### Marks :

- UI. (20%)
- Validation (40%)
- Process (40%)