

code.txt

' Here is the code from the Patient.vb class
module:

```
Imports Microsoft.VisualBasic
```

```
Public Class Patient
```

```
    Private account_no_val As String  
    Private lastname_val As String  
    Private firstname_val As String  
    Private middlename_val As String  
    Private dob_val As Date  
    Private bedid_val As Integer  
    Private admitdate_val As Date  
    Private dischargedate_val As Date
```

```
    Public Property AcctNo() As String
```

```
        Get
```

```
            Return account_no_val
```

```
        End Get
```

```
        Set(ByVal value As String)
```

```
            account_no_val = value
```

```
        End Set
```

```
    End Property
```

```
    Public Property LastName() As String
```

```
        Get
```

```
            Return lastname_val
```

```
        End Get
```

```
        Set(ByVal value As String)
```

```
            lastname_val = value
```

```
        End Set
```

```
    End Property
```

```
    Public Property FirstName() As String
```

```
        Get
```

```

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        Return firstname_val
    End Get
    Set(ByVal value As String)
        firstname_val = value
    End Set
End Property
Public Property MiddleName() As String
    Get
        Return Middlename_val
    End Get
    Set(ByVal value As String)
        Middlename_val = value
    End Set
End Property
Public Property DOB() As Date
    Get
        Return dob_val
    End Get
    Set(ByVal value As Date)
        If value < Now.Date Then
            dob_val = value
        End If
    End Set
End Property
Public ReadOnly Property BedID() As
Integer
    Get
        Return bedid_val
    End Get
End Property
Public ReadOnly Property AdmitDate() As
Date
    Get
        Return admitdate_val

```

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```
End Get
End Property
Public Property DischargeDate() As Date
Get
    Return dischargedate_val
End Get
Set(ByVal value As Date)
    dischargedate_val = value
End Set
End Property
Public Sub Admit()
    Dim random_instance = New Random
    bedid_val = Int(random_instance.Next)
    admitdate_val = Today
End Sub
Public Sub Discharge()
    If Me.AdmitDate() <= Today Then
        Me.DischargeDate = Today
    End If
End Sub
End Class
```

' Here is the code from the newpatient.aspx.vb webform code file:

```
Protected Sub btnAdd_Click(ByVal sender As Object, ByVal e As System.EventArgs) Handles btnAdd.Click
    Dim is_it_a_date As DateTime
    Dim aPatient As New Patient

    aPatient.AcctNo = txtAcctNo.Text
    aPatient.FirstName = txtFirst.Text
    aPatient.MiddleName = txtMiddle.Text
```

```

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aPatient.LastName = txtLast.Text
Try
    is_it_a_date =
Convert.ToDateTime(txtDOB.Text)
Catch ex As Exception
    lblDateError.Text = "Your entry
does not appear to be a valid date."
    lblDateError.Visible = True
    txtDOB.Text = Today.ToString
End Try
If is_it_a_date > Today Then
    lblDateError.Text = " A date of
birth should be before today."
    lblDateError.Visible = True
    txtDOB.Text = Today.ToString
End If
aPatient.DOB =
Convert.ToDateTime(txtDOB.Text)
aPatient.Admit()
lblShowAcctNo.Text = "A new patient is
being created with an account number of " &
aPatient.AcctNo _
    & ", whose name is " &
aPatient.FirstName & " " & aPatient.MiddleName
& " " & aPatient.LastName _
    & ", and who was born " & aPatient.DOB
& ". The patient is being admitted today, " &
aPatient.AdmitDate _
    & " into bed #" & aPatient.BedID & ". "
    Session("Patient") = aPatient
End Sub

```

```

Protected Sub Page_Load(ByVal sender As
Object, ByVal e As System.EventArgs) Handles

```

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Me. Load

```
    If Not IsPostBack Then
        txtAcctNo.Text = "3489052332"
        txtFirst.Text = "Porky"
        txtMiddle.Text = "Pernicious"
        txtLast.Text = "Pigg"
        txtDOB.Text = "11/08/1925"
    End If
End Sub
```

' Here is the code from the
dischargepatient.aspx.vb webform code file:

```
Protected Sub btnDischarge_Click(ByVal sender As Object, ByVal e As System.EventArgs) Handles btnDischarge.Click
    Dim aPatient As New Patient
    aPatient = Session("Patient")
    aPatient.Discharge()
    lblShow.Text = "The current patient " & aPatient.FirstName & " " & aPatient.MiddleName & " " & aPatient.LastName & " was born " & aPatient.DOB & ". This patient, with an account number of " & aPatient.AcctNo & " was admitted on " & aPatient.AdmitDate & " into bed #" & aPatient.BedID & ". The patient record will now show a " & aPatient.DischargeDate & "."
```

End Sub

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