Problem 1.

Application Requirements

A dentist’s office administrator wishes to create an application that employees can use to bill patients. The application must allow users to enter the patient’s name and specify which services were performed during the visit. The application will then calculate the total charges. If a user attempts to calculate a bill before any services are specified, or before the patient’s name is entered, a message will be displayed.

The **MINIMUM** requirements:

1. Use **dialogs (labels and Text boxes)** to display messages (for example to enter the patient name, address, plan etc.).
2. Use **CheckBoxes** to allow users to select different options (Cleaning, Cavity Filling, X-Ray, Fluoride, Root Canal, Other).
3. Include the amount for these operations.
4. Include **Calculate Button** to display the total amount that should be paid by the patient.
Problem 2.

Design the following interface including event handling.
**Problem 3.**

Design the following interface including event handling.

Hint.

**StringBuilder**

A String cannot be changed. Repeated concatenation causes the allocation of new String objects.
Using StringBuilder is more efficient.
StringBuilder s = new StringBuilder("The ");
s.Append(animal1);
s.Append(" and ");
Problem 4.
Design the following interface including event handling.

- Handle the button Click event: when the user clicks the button, we determine which radio button is check and which item is selected in the combo box.
- Selecting a RadioButton generates a CheckedChanged event.
- Selecting a ComboBox item generates a SelectedIndexChanged event.

Help
- All radio buttons in a Form belong to one group by default. Selecting one deselects the others.
- A ComboBox contains a list of items, showing one, and allowing the user to pop up the rest.

```csharp
// Add items to combo box
color.Items.Add("Red");
color.Items.Add("Green");
color.Items.Add("Blue");
```
Requirements to submission:

PRINT:
1. The GUI design for problem 1.
2. Complete source code.
3. Testing snapshots.

Electronic submission (on my pen drive):
All of the above plus the exe file.

Don’t forget to include as comments:
1. Your name
2. CSC330 HW4