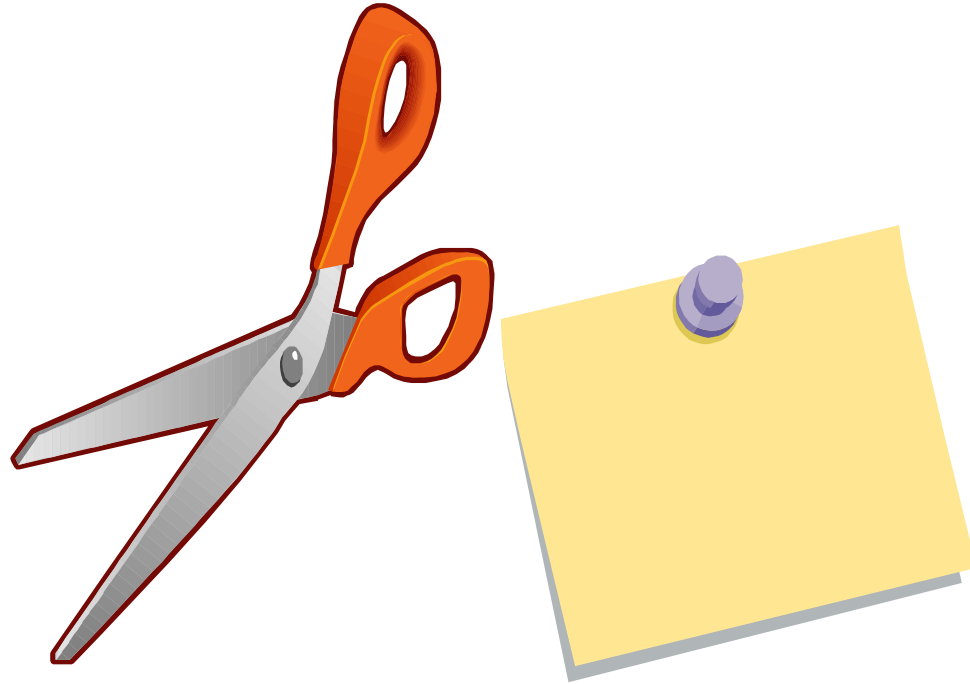


CO453 Application Programming

Week 6 – SPS remake

.NET part 2

C# .NET part 2



The Scissors Paper Stone Game (Windows Version)

Basic Rules

- You play against the computer
- Player chooses either: Scissors, Paper or Stone
- Computer also chooses one of these at random
- Possible results
 - If player and computer choose the same thing, the result is a Draw.
 - Scissors win against Paper
(because scissors cut paper)
 - Scissors lose against Stone
(because stone blunts scissors)
 - Paper wins against Stone
(because paper wraps stone)

Activity


Replicate the form interface below (Task 2.1):

The image shows a window titled "Scissors Paper Stone Game" with standard Windows window controls (minimize, maximize, close). The window contains a form with three main sections:

- User Choice:** A dashed rectangular box for input, followed by three radio buttons labeled "Scissors", "Paper", and "Stone".
- Computer Choice:** A dashed rectangular box for input, followed by a "Play" button.
- Result:** A dashed rectangular box containing a 2x3 grid of small square markers connected by dotted lines, followed by a "Quit" button.

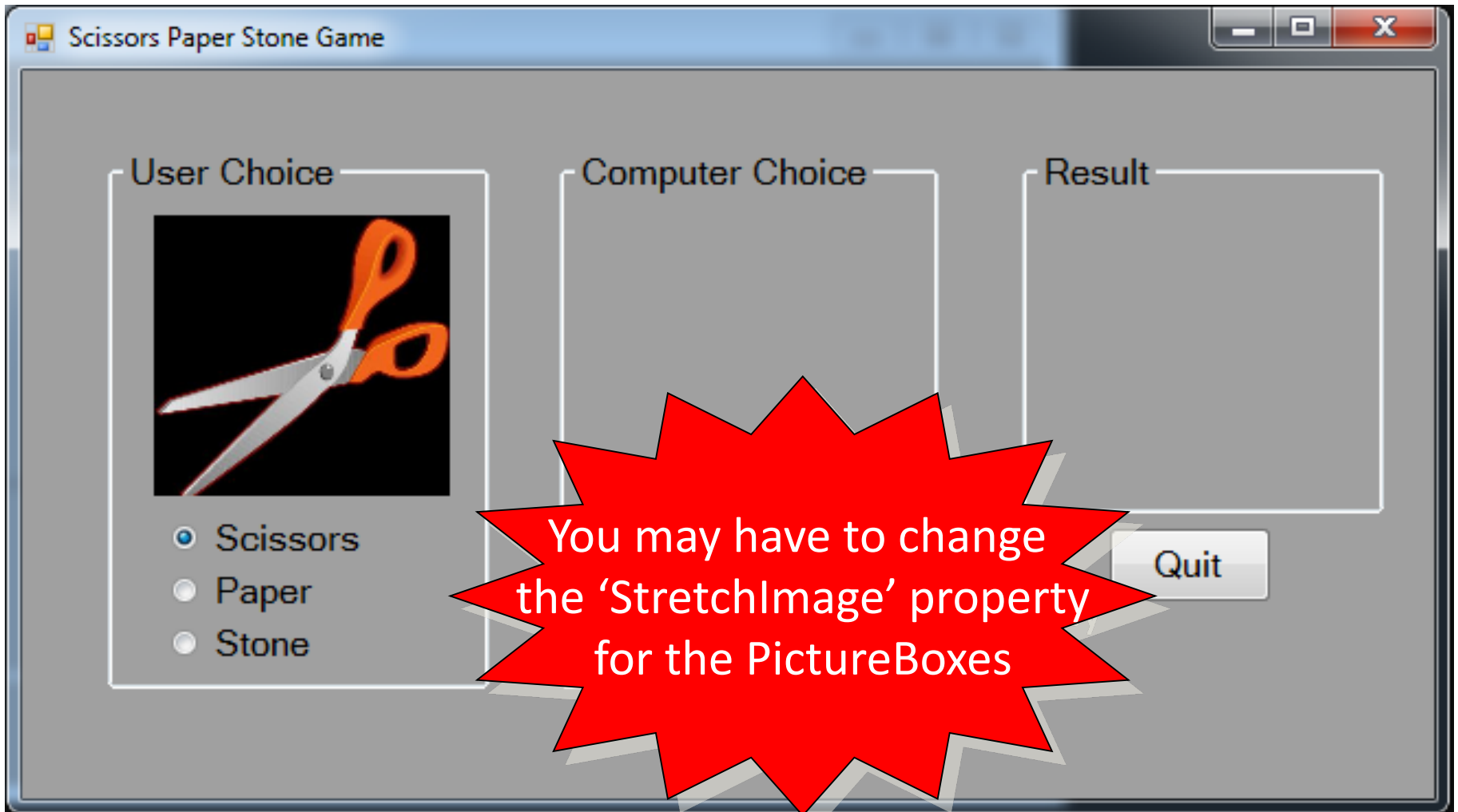
Code the Scissors RadioButton (named: rbnScissors)

```
private void rbnScissors_CheckedChanged(object sender, EventArgs e)
{
    pbxUser.Image = Image.FromFile("Scissors.jpg");
}
```



This loads the scissors.jpg
image file into the user's
PictureBox (pbxUser)

Loading an Image File



The Play Button's Click Method

```
Random r = new Random(); // create a new random object r  
compChoice = r.Next(3) + 1; // use r to pick a number from 1 to 3
```

```
if (compChoice == 1)
```

```
{
```

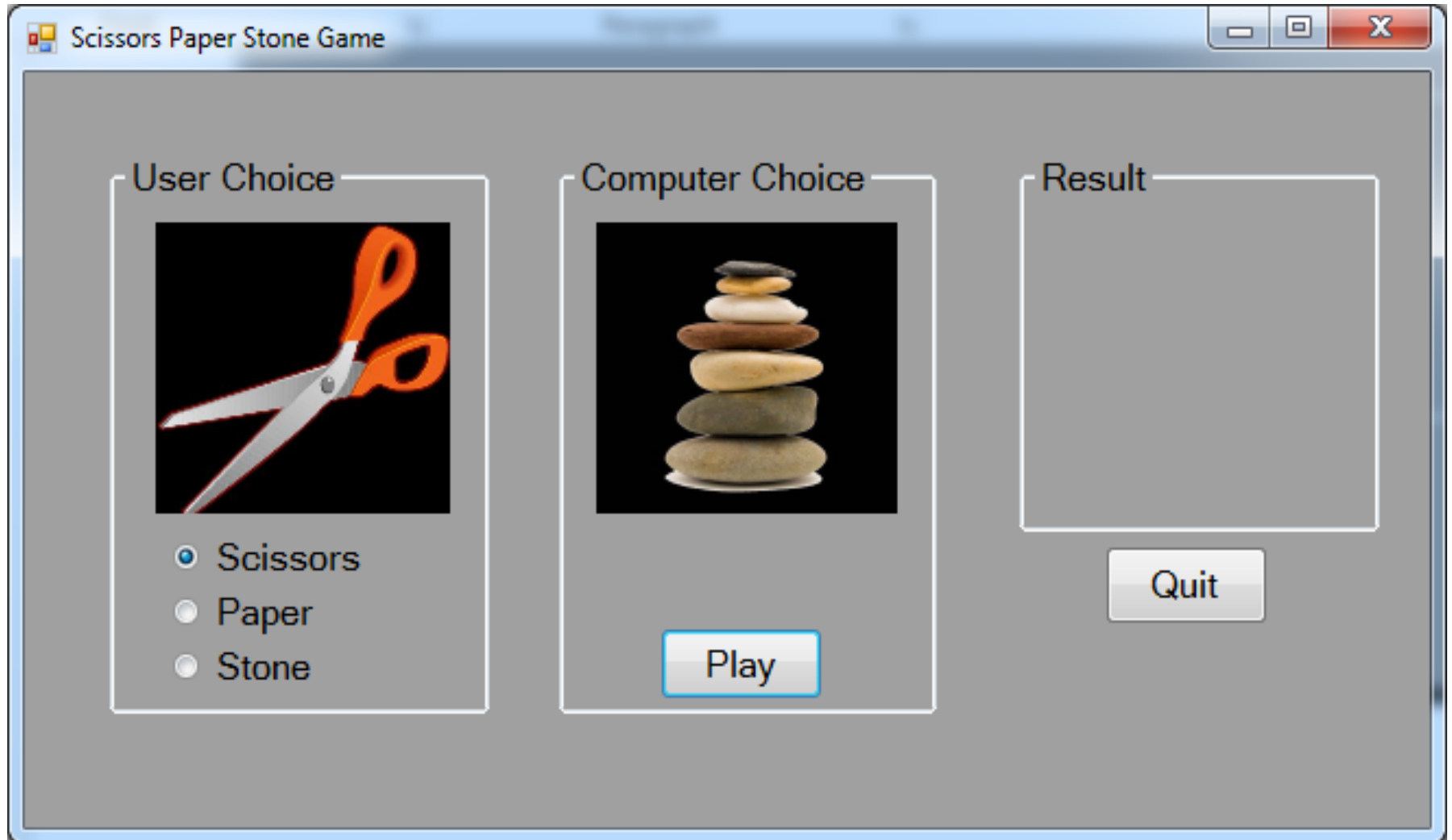
```
    pbxComputer.Image = Image.FromFile("Scissors.jpg");
```

```
}
```



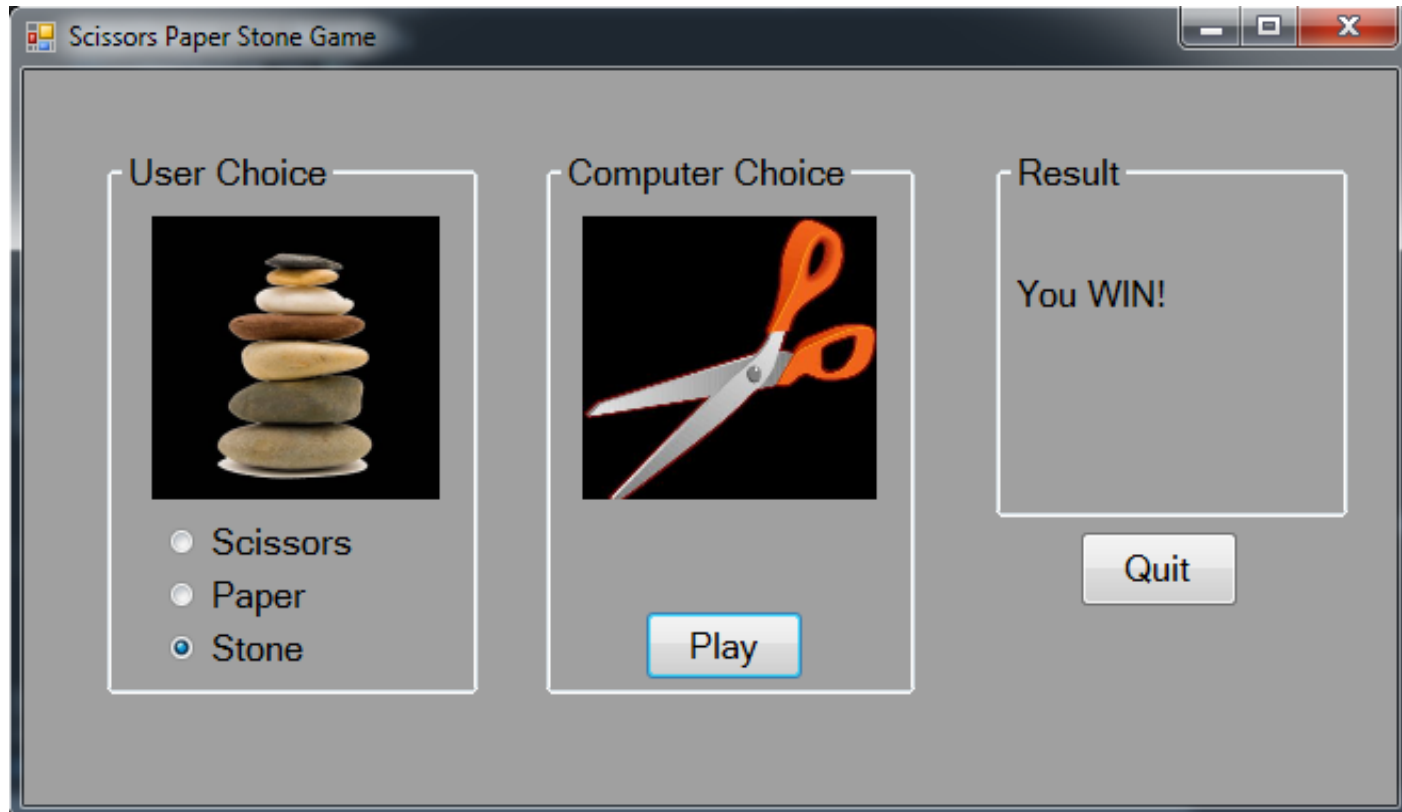
and similar for other
choices

Both Displays



Activity

Code the interface to display the correct images for the player's choice and the computer's random choice (Task 2.2 and 2.3):



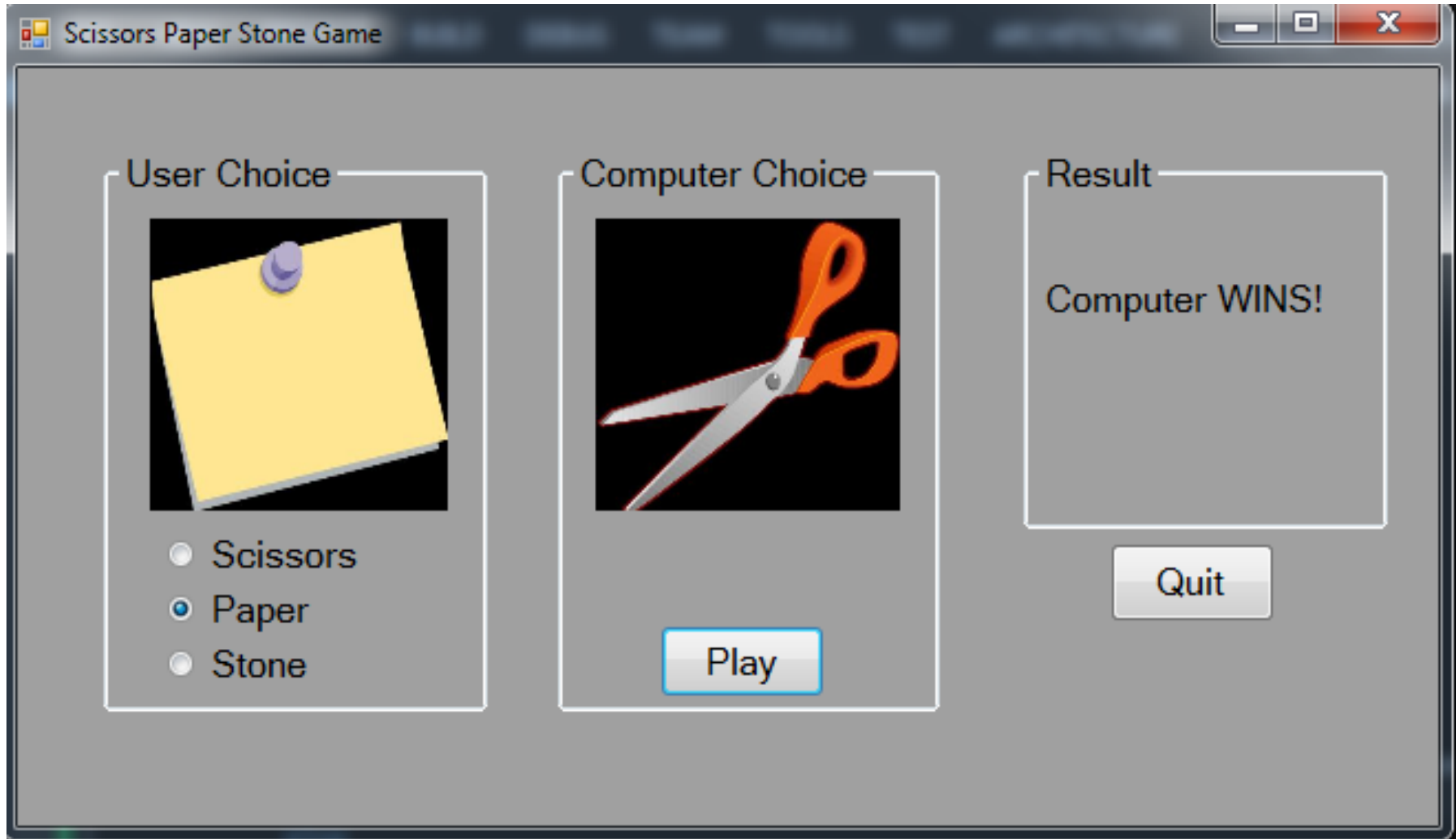
A CheckResult() Method

```
if (compChoice == userChoice)
{
    lblResult.Text = "It's a Draw" ;
}
```

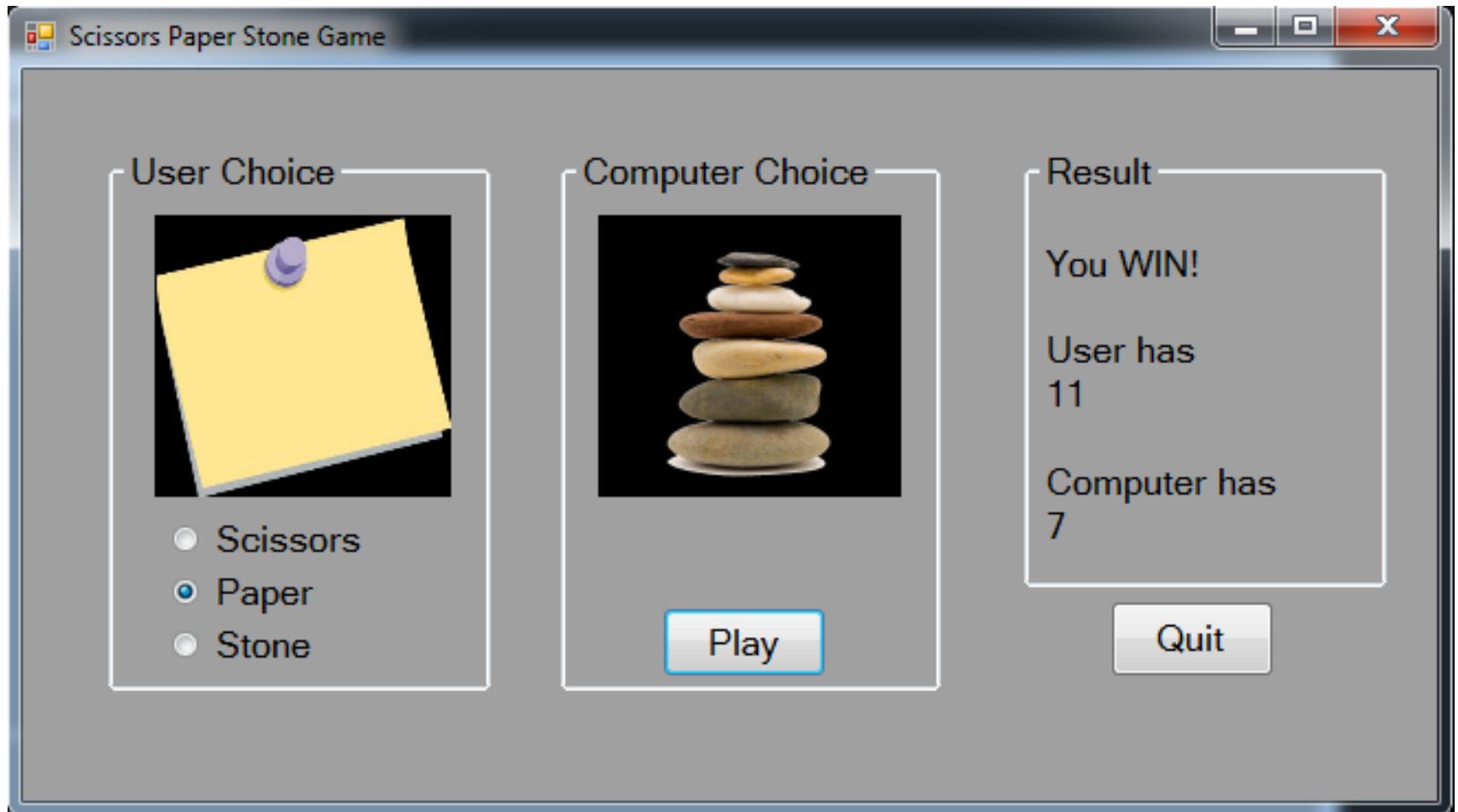


and similar for other combinations

Playing the Game



Independent Study



The Last Slide

