```
1 using System.Security.Cryptography.X509Certificates;
2
 3 namespace rockPaperScissors
 4 {
       public partial class Form1 : Form
 5
 6
 7
            //Programmer: Aaron Yoon
 8
            //date 12/5/22
            //project rock paper scissors simulation
9
10
11
12
            int player1Wins = 0;
13
            int player2Wins = 0;
14
            int gamesPlayed = 0;
            public Form1()
15
16
                InitializeComponent();
17
18
            }
19
            private void Form1_Load(object sender, EventArgs e)
20
21
22
                togglePlayer2();
23
            }
24
25
            private void btnShoot_Click(object sender, EventArgs e)
26
27
                DialogResult resultAnswer = new DialogResult();
28
                resultAnswer = MessageBox.Show("You sure?", "dill pickle",
29
                  MessageBoxButtons.YesNo);
30
                if(resultAnswer == DialogResult.Yes)
31
32
                {
33
                    displayPics1();
34
                    togglePlayer1();
35
                    togglePlayer2();
36
                }
37
38
39
40
41
            }
42
43
            private void btnQuit_Click(object sender, EventArgs e)
44
            {
45
                this.Close();
46
47
48
            private string displayPics1()
```

```
...so\Desktop\GITA 1\projects\rockPaperScissors\Form1.cs
                                                                                    2
49
50
                 //picPlayer1.Visible = true;
51
                 if (radRock1.Checked)
52
                 {
53
                     picPlayer1.Image = picRock.Image;
54
                     return "rock";
                 }
55
56
57
                 else if (radPaper1.Checked)
58
59
                     picPlayer1.Image = picPaper.Image;
60
                     return "paper";
                 }
61
62
                 else if (radScissors1.Checked)
63
64
                     picPlayer1.Image = picScissors.Image;
65
66
                     return "scissors";
67
                 }
68
                 else if (radSpock1.Checked)
69
70
                 {
71
                     picPlayer1.Image = picSpock.Image;
                     return "spock";
72
73
                 }
74
75
                 else if (radLizard1.Checked)
76
                     picPlayer1.Image = picLizard.Image;
77
                     return "lizard";
78
79
                 }
80
                 else
81
                     return "how did we get here?";
82
83
84
             }
85
86
             private string displayPics2()
87
88
                 //picPlayer2.Visible = true;
89
                 if (radRock2.Checked)
                 {
90
```

picPlayer2.Image = picRock.Image;

picPlayer2.Image = picPaper.Image;

return "rock";

else if (radPaper2.Checked)

}

{

91

92 93

94 95

96

97

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                                                                                    3
 98
                     return "paper";
 99
                 }
100
101
                 else if (radScissors2.Checked)
102
103
                     picPlayer2.Image = picScissors.Image;
104
                     return "scissors";
105
                 }
106
107
                 else if (radSpock2.Checked)
108
109
                     picPlayer2.Image = picSpock.Image;
110
                     return "spock";
111
                 }
112
113
                 else if (radLizard2.Checked)
114
115
                     picPlayer2.Image = picLizard.Image;
116
                     return "lizard";
                 }
117
                 else
118
119
                     return "how did we get here?";
120
121
122
             }
123
             private void reset()
124
125
                 picPlayer1.Image = null;
126
127
                 picPlayer2.Image = null;
128
129
                 //grpBxHand2.Visible = true;
130
                 //picPlayer2.Visible = true;
131
                 //btnChoose2.Enabled = true;
132
133
                 grpBxHand1.Visible = true;
134
                 picPlayer1.Visible = true;
135
                 btnChoose1.Enabled = true;
136
```

private void grpBxHand_Enter(object sender, EventArgs e)

btnReveal.Enabled = false;

displayPics1();

private void togglePlayer1()

137

138139140

141142

143

144145

146

}

}

```
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                                                                                   4
147
                 if(grpBxHand1.Visible == true)
148
                 {
149
                     grpBxHand1.Visible = false;
150
                     picPlayer1.Visible = false;
151
                     btnChoose1.Enabled= false;
                 }
152
                 else if(grpBxHand1.Visible == false)
153
154
155
                     grpBxHand1.Visible = true;
                     picPlayer1.Visible = true;
156
157
                     btnChoose1.Enabled = true;
                 }
158
             }
159
160
             private void togglePlayer2()
161
162
                 if (grpBxHand2.Visible == true)
163
164
                     grpBxHand2.Visible = false;
165
166
                     picPlayer2.Visible = false;
167
                     btnChoose2.Enabled = false;
                 }
168
169
                 else if (grpBxHand2.Visible == false)
170
171
                     grpBxHand2.Visible = true;
172
                     picPlayer2.Visible = true;
173
                     btnChoose2.Enabled = true;
174
                 }
             }
175
176
177
             private void btnChoose2_Click(object sender, EventArgs e)
178
179
                 DialogResult resultAnswer = new DialogResult();
180
                 resultAnswer = MessageBox.Show("You sure?", "dill pickle",
181
                   MessageBoxButtons.YesNo);
182
183
                 if (resultAnswer == DialogResult.Yes)
184
185
                     displayPics2();
186
                     togglePlayer2();
187
                     btnReveal.Enabled = true;
188
189
                 }
             }
190
191
192
             private void btnReveal_Click(object sender, EventArgs e)
193
194
                 picPlayer1.Visible = true;
```

```
...so\Desktop\GITA 1\projects\rockPaperScissors\Form1.cs
```

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5
```

```
195
                 picPlayer2.Visible = true;
196
                 gamesPlayed += 1;
197
                 chooseWinner(displayPics1(), displayPics2());
198
             }
199
200
             private void chooseWinner(string choice1, string choice2)
201
202
                 string verdict = "";
                 if (choice1 == choice2)
203
204
                 {
205
                     verdict = "Tie!";
206
                 else if (choice1 == "rock" && choice2 == "scissors")
207
208
                     verdict = "Player 1 Wins!";
209
210
                     player1Wins += 1;
211
212
                 else if (choice1 == "rock" && choice2 == "lizard")
213
214
                     verdict = "Player 1 Wins";
215
                     player1Wins += 1;
216
217
                 else if (choice1 == "scissors" && choice2 == "lizard")
218
                     verdict = "Player 1 Wins!";
219
220
                     player1Wins += 1;
221
222
                 else if (choice1 == "scissors" && choice2 == "paper")
223
224
                     verdict = "Player 1 Wins!";
225
                     player1Wins += 1;
226
227
                 else if (choice1 == "lizard" && choice2 == "paper")
228
                     verdict = "Player 1 Wins!";
229
230
                     player1Wins += 1;
231
232
                 else if (choice1 == "lizard" && choice2 == "spock")
233
234
                     verdict = "Player 1 Wins!";
235
                     player1Wins += 1;
236
237
                 else if (choice1 == "paper" && choice2 == "spock")
238
                     verdict = "Player 1 Wins!";
239
240
                     player1Wins += 1;
241
                 else if (choice1 == "paper" && choice2 == "rock")
242
243
```

```
...so\Desktop\GITA 1\projects\rockPaperScissors\Form1.cs
```

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6
```

```
244
                     verdict = "Player 1 Wins!";
245
                     player1Wins += 1;
246
247
                 else if (choice1 == "spock" && choice2 == "scissors")
248
249
                     verdict = "Player 1 Wins!";
250
                     player1Wins += 1;
251
                 else if (choice1 == "spock" && choice2 == "scissors")
252
253
254
                     verdict = "Player 1 Wins!";
255
                     player1Wins += 1;
256
257
                 else if (choice1 == "rock" && choice2 == "spock")
258
259
                     verdict = "Player 2 Wins!";
260
                     player2Wins += 1;
261
262
                 else if (choice1 == "rock" && choice2 == "paper")
263
                     verdict = "Player 2 Wins!";
264
265
                     player2Wins += 1;
266
                 else if (choice1 == "scissors" && choice2 == "spock")
267
268
269
                     verdict = "Player 2 Wins!";
270
                     player2Wins += 1;
271
                 else if (choice1 == "scissors" && choice2 == "rock")
272
273
274
                     verdict = "Player 2 Wins!";
275
                     player2Wins += 1;
276
                 else if (choice1 == "lizard" && choice2 == "scissors")
277
278
279
                     verdict = "Player 2 Wins!";
280
                     player2Wins += 1;
281
                 else if (choice1 == "lizard" && choice2 == "rock")
282
283
                     verdict = "Player 2 Wins!";
284
285
                     player2Wins += 1;
286
287
                 else if (choice1 == "paper" && choice2 == "lizard")
288
289
                     verdict = "Player 2 Wins!";
290
                     player2Wins += 1;
291
                 else if (choice1 == "paper" && choice2 == "scissors")
292
```

```
...so\Desktop\GITA 1\projects\rockPaperScissors\Form1.cs
                                                                                   7
293
294
                     verdict = "Player 2 Wins!";
295
                     player2Wins += 1;
296
                 else if (choice1 == "spock" && choice2 == "paper")
297
298
299
                     verdict = "Player 2 Wins!";
300
                     player2Wins += 1;
301
302
                 else if (choice1 == "spock" && choice2 == "lizard")
303
304
                     verdict = "Player 2 Wins!";
305
                     player2Wins += 1;
306
                 }
307
                 else
308
                     verdict = "how did we get here?";
309
310
                 MessageBox.Show(verdict);
311
312
             }
313
314
             private void btnReset_Click(object sender, EventArgs e)
315
316
                 reset();
             }
317
318
             private void btnStats_Click(object sender, EventArgs e)
319
320
321
                 MessageBox.Show(
322
                     "player 1 wins: " + player1Wins.ToString() + "\n"
                     + "player 2 wins: " + player2Wins.ToString() + "\n"
323
324
                     + "total games: " + gamesPlayed.ToString());
325
             }
326
327
             private void radRock1_CheckedChanged(object sender, EventArgs e)
328
329
                 picPlayer1.Image = picRock.Image;
330
             }
331
332
             private void radPaper1_CheckedChanged(object sender, EventArgs e)
333
334
                 picPlayer1.Image = picPaper.Image;
335
             }
336
337
             private void radScissors1_CheckedChanged(object sender, EventArgs >
               e)
             {
338
339
                 picPlayer1.Image = picScissors.Image;
340
             }
```

```
...so\Desktop\GITA 1\projects\rockPaperScissors\Form1.cs
```

```
341
342
             private void radSpock1_CheckedChanged(object sender, EventArgs e)
343
344
                 picPlayer1.Image = picSpock.Image;
             }
345
346
             private void radLizard1_CheckedChanged(object sender, EventArgs e)
347
348
                 picPlayer1.Image = picLizard.Image;
349
350
             }
351
             private void radRock2_CheckedChanged(object sender, EventArgs e)
352
353
354
                 picPlayer2.Image = picRock.Image;
             }
355
356
             private void radPaper2_CheckedChanged(object sender, EventArgs e)
357
358
359
                 picPlayer2.Image = picPaper.Image;
             }
360
361
362
             private void radScissors2_CheckedChanged(object sender, EventArgs >
              e)
             {
363
364
                 picPlayer2.Image = picScissors.Image;
365
             }
366
367
             private void radSpock2_CheckedChanged(object sender, EventArgs e)
368
369
                 picPlayer2.Image = picSpock.Image;
370
             }
371
372
             private void radLizard2_CheckedChanged(object sender, EventArgs e)
373
374
                 picPlayer2.Image = picLizard.Image;
375
             }
376
        }
377 }
```