```
1 //Programmer: Aaron Yoon
 2 //Date: 9/30/22
 3 //Project: craps Simulator
 5 using System.ComponentModel;
 6 using System.Runtime.CompilerServices;
 7
 8 namespace Dice_Game
9 {
10
       public partial class Form1 : Form
11
            //make variables to track how many times a number was rolled
12
13
            double totalRolls = 0;
14
            int rolled2 = 0;
            int rolled3 = 0;
15
16
            int rolled4 = 0;
17
            int rolled5 = 0;
18
            int rolled6 = 0;
19
            int rolled7 = 0;
20
            int rolled8 = 0;
            int rolled9 = 0;
21
22
            int rolled10 = 0;
23
            int rolled11 = 0;
24
            int rolled12 = 0;
25
26
            double prob2 = 0;
            double prob3 = 0;
27
28
            double prob4 = 0;
            double prob5 = 0;
29
            double prob6 = 0;
30
            double prob7 = 0;
31
32
            double prob8 = 0;
33
            double prob9 = 0;
34
            double prob10 = 0;
            double prob11 = 0;
35
            double prob12 = 0;
36
37
38
            bool isRound2 = false;
            int point = 0;
39
40
41
            //generate random numbers
            System.Random r = new System.Random((int)
42
              System.DateTime.Now.Ticks);
43
            public Form1()
44
            {
45
                InitializeComponent();
46
            }
47
48
            private void Form1_Load(object sender, EventArgs e)
```

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2
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```
49
50
51
            }
52
            private void btnQUIT_Click(object sender, EventArgs e)
53
54
55
                this.Close();
56
            }
57
            private void btnRoll_Click(object sender, EventArgs e)
58
59
                arbiString.Visible = true;
60
61
                lblNumRolled.Visible = true;
62
                int randomizer1 = r.Next(1, 7);
63
64
                int randomizer2 = r.Next(1, 7);
                int numRolled = randomizer1 + randomizer2;
65
66
67
68
                lblRoll1.Text = randomizer1.ToString();
                lblRoll2.Text = randomizer2.ToString();
69
70
                lblNumRolled.Text = numRolled.ToString();
71
                picSetter(picRoll1, randomizer1);
72
73
                picSetter(picRoll2, randomizer2);
74
                if ((numRolled == 7 || numRolled == 11) && isRound2 == false)
75
76
                    MessageBox.Show("YOU WIN!!!",
77
                        "CONGRATS!!",
78
79
                        MessageBoxButtons.OK,
                        MessageBoxIcon.Exclamation
80
81
                        );
82
                    picWin.Visible = true;
83
                    reset();
                    lblOutput.Text = "Round 1";
84
                }
85
86
                else if((numRolled == 2 || numRolled == 3 || numRolled == 12) >
87
                  && isRound2 == false)
88
                    MessageBox.Show("YOU LOSE!!!",
89
90
                        "OH WELL, BETTER LUCK NEXT TIME!",
91
                        MessageBoxButtons.OK,
92
                        MessageBoxIcon.Exclamation
93
                        );
                    reset();
94
                }
95
96
```

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                                                                                   3
                 else if(!isRound2)
 98
                 {
 99
                     point = numRolled;
                     isRound2 = true;
100
101
                     setMarker(point);
                     lblPoint.Text = "Your point: " + point.ToString() + "\n" >
102
                       + "You need a: " + point.ToString() + " to win!";
103
                     lblOutput.Text = "Round 2";
                 }
104
105
                 else if (isRound2 && numRolled == 7)
106
107
                     MessageBox.Show("YOU LOSE!!!",
108
109
                         "GAME OVER",
                         MessageBoxButtons.OK,
110
111
                         MessageBoxIcon.Exclamation
112
                         );
113
                     reset();
114
                 }
115
                 else if(isRound2 && point == numRolled)
116
117
118
                     MessageBox.Show("YOU WIN!!!",
                         "GAME OVER",
119
120
                         MessageBoxButtons.OK,
121
                         MessageBoxIcon.Exclamation
122
                         );
123
                     picWin.Visible = true;
124
                     reset();
                 }
125
             }
126
127
128
129
             private void picSetter(PictureBox picture, int number)
130
131
                 if (number == 1)
132
                     picture.Image = picDice1.Image;
133
                 else if (number == 2)
                     picture.Image = picDice2.Image;
134
135
                 else if (number == 3)
                     picture.Image = picDice3.Image;
136
137
                 else if (number == 4)
138
                     picture.Image = picDice4.Image;
                 else if (number == 5)
139
                     picture.Image = picDice5.Image;
140
141
                 else if (number == 6)
142
                     picture.Image = picDice6.Image;
```

143

144

}

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```
4
145
             private void setNumRolled(int num)
146
             {
147
                 if (num == 2)
148
                     rolled2 += 1;
149
                 if (num == 3)
150
                     rolled3 += 1;
                 if (num == 4)
151
152
                     rolled4 += 1;
153
                 if (num == 5)
154
                     rolled5 += 1;
155
                 if (num == 6)
156
                     rolled6 += 1;
157
                 if (num == 7)
158
                     rolled7 += 1;
159
                 if (num == 8)
160
                     rolled8 += 1;
161
                 if (num == 9)
162
                     rolled9 += 1;
163
                 if (num == 10)
164
                     rolled10 += 1;
165
                 if (num == 11)
166
                     rolled11 += 1;
167
                 if (num == 12)
168
                     rolled12 += 1;
             }
169
170
             private void reset()
171
172
                 lblOutput.Text = "Round 1";
173
174
                 isRound2 = false;
175
                 point = 0;
176
                 picRoll1.Image = null;
177
                 picRoll2.Image = null;
178
                 lblRoll1.Text = null;
179
                 lblRoll2.Text = null;
180
                 lblNumRolled.Text = null;
                 lblPoint.Text = "No point yet";
181
182
                 toggleVisibleExcept(null, false);
                 picWin.Visible = false;
183
             }
184
185
             private void setMarker(int point)
186
187
             {
188
                 if (point == 4)
189
                     toggleVisibleExcept(picMark4, false);
190
                 else if (point == 5)
                     toggleVisibleExcept(picMark5, false);
191
192
                 else if (point == 6)
```

toggleVisibleExcept(picMark6, false);

193

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                                                                                  5
194
                 else if (point == 8)
195
                     toggleVisibleExcept(picMark8, false);
196
                 else if (point == 9)
                     toggleVisibleExcept(picMark9, false);
197
                 else if (point == 10)
198
                     toggleVisibleExcept(picMark10, false);
199
             }
200
201
             private void toggleVisibleExcept(PictureBox picture, bool
202
                                                                                  P
               isVisible)
203
                 picMark4.Visible = isVisible;
204
                 picMark5.Visible = isVisible;
205
206
                 picMark6.Visible = isVisible;
                 picMark8.Visible = isVisible;
207
208
                 picMark9.Visible = isVisible;
                 picMark10.Visible = isVisible;
209
210
211
                 if (picture == null)
212
                     return;
213
                 else
214
                 picture.Visible = !isVisible;
215
             }
216
217
             private void picRoll1_Click(object sender, EventArgs e)
218
219
220
             }
221
             private void arbiString_Click(object sender, EventArgs e)
222
223
224
225
             }
226
             private void lblOutput_Click(object sender, EventArgs e)
227
228
229
230
             }
231
             private void pictureBox2_Click(object sender, EventArgs e)
232
233
234
235
             }
236
        }
237 }
```