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Semester : 5th

Department : BS(CS)

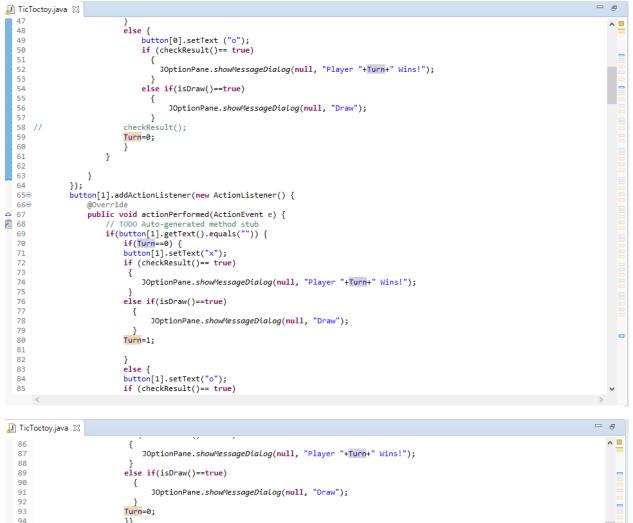
Subject : OBJECT ORIENTED PROGRAMMING

ASSIGNMENT

Q1: Create a tic toc toe game in java and explain it in details including screen shots?

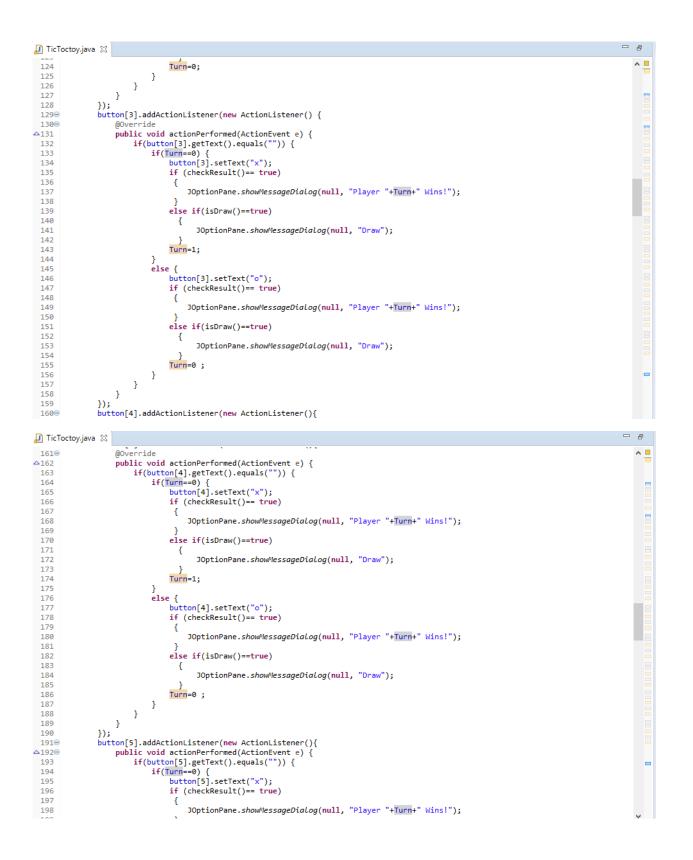
Answer: Program Code:

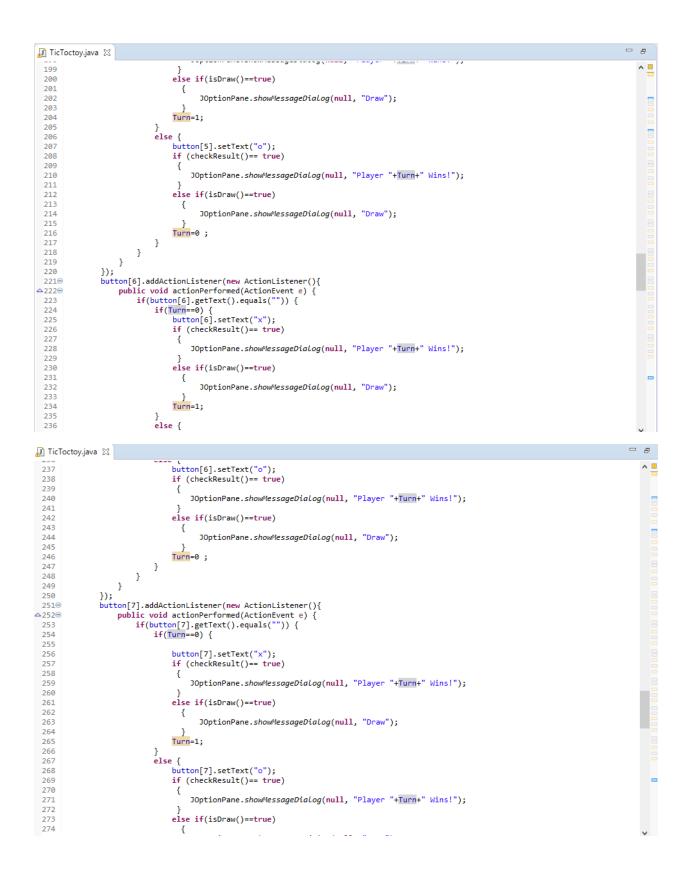


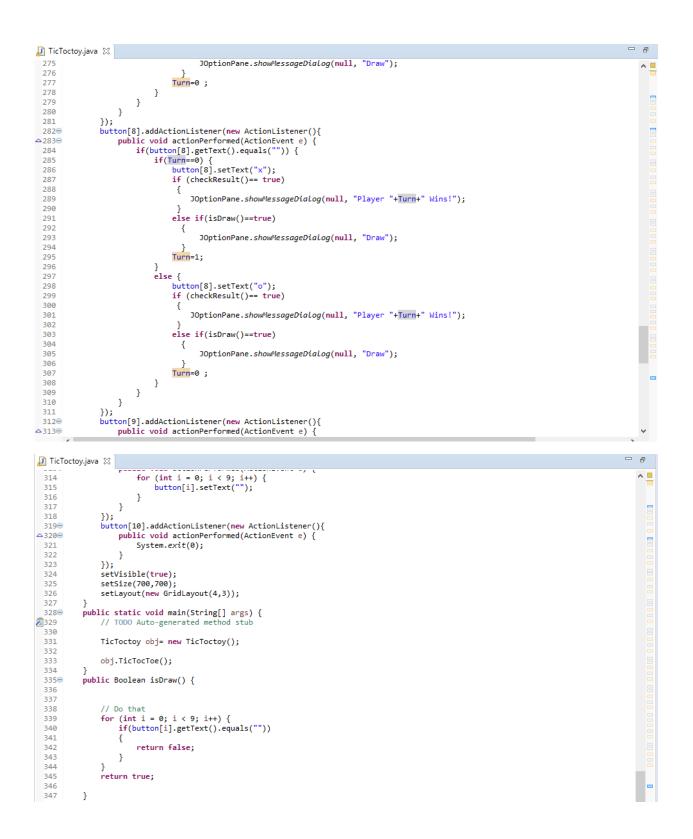


```
94
                          }}
  95
                  }
  96
              });
  97⊝
              button[2].addActionListener(new ActionListener () {
  <mark>98⊝</mark>
                  @Override
                  <u>99</u> ک
 100
 101
                          button[2].setText("x");
if (checkResult()== true)
 102
 103
 104
                           {
 105
                              JOptionPane.showMessageDialog(null, "Player "+Turn+" Wins!");
 106
                          else if(isDraw()==true)
 107
 108
                            {
 109
                                JOptionPane.showMessageDialog(null, "Draw");
 110
                          Turn=1;
 111
 112
                          3
 113
                          else {
 114
 115
                              button[2].setText("o");
                              if (checkResult()== true)
 116
 117
                               {
                                  JOptionPane.showMessageDiaLog(null, "Player "+Turn+" Wins!");
 118
 119
                              else if(isDraw()==true)
 120
 121
                                {
                                    JOptionPane.showMessageDialog(null, "Draw");
 122
 123
                                }
```

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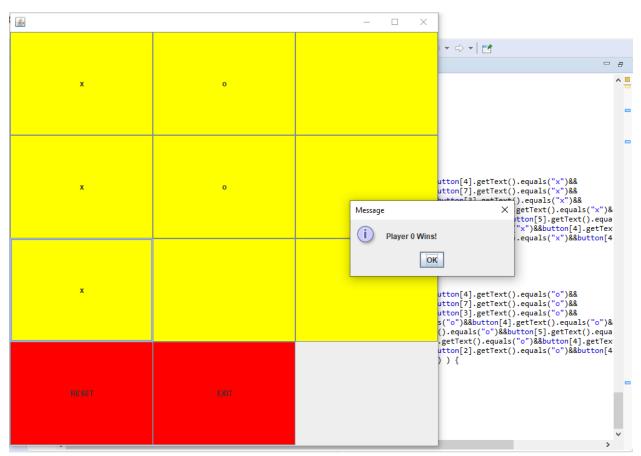




348		public boolean checkResult()	
349			
350		if((button[0].getText().equals("x")&&button[1].getText().equals("x")&&	
351		<pre>button[2].getText().equals("x")) (button[3].getText().equals("x")&&button[4].getText().equals("x")&&</pre>	
352		<pre>button[5].getText().equals("x")) (button[6].getText().equals("x")&&button[7].getText().equals("x")&&</pre>	
353		<pre>button[8].getText().equals("x")) (button[0].getText().equals("x")&&button[3].getText().equals("x")&&</pre>	
354		<pre>button[6].getText().equals("x")) (button[1].getText().equals("x")&&button[4].getText().equals("x")&</pre>	
355		<pre>button[7].getText().equals("x")) (button[2].getText().equals("x")&&button[5].getText().equal</pre>	
356		<pre>button[8].getText().equals("x")) (button[0].getText().equals("x")&&button[4].getTex</pre>	
357		<pre>button[8].getText().equals("x")) (button[2].getText().equals("x")&&button[4</pre>	
358		<pre>button[6].getText().equals("x"))) {</pre>	
359		return true;	
360	11	JOptionPane.showMessageDialog(null, "X Wins");	
361		}	
362		<pre>else if((button[0].getText().equals("o")&&button[1].getText().equals("o")&&</pre>	
363		<pre>button[2].getText().equals("o")) (button[3].getText().equals("o")&&button[4].getText().equals("o")&&</pre>	
364		<pre>button[5].getText().equals("o")) (button[6].getText().equals("o")&&button[7].getText().equals("o")&&</pre>	
365		<pre>button[8].getText().equals("o")) (button[0].getText().equals("o")&&button[3].getText().equals("o")&&</pre>	
366		<pre>button[6].getText().equals("o")) (button[1].getText().equals("o")&&button[4].getText().equals("o")&</pre>	
367		<pre>button[7].getText().equals("o")) (button[2].getText().equals("o")&&button[5].getText().equals("o")</pre>	
368 369		<pre>button[8].getText().equals("o")) (button[0].getText().equals("o")&button[4].getTex</pre>	
369		<pre>button[8].getText().equals("o")) (button[2].getText().equals("o")&&button[4</pre>	
370		<pre>button[6].getText().equals("o")) { JOptionPane.showMessageDialog(null, "O Wins");</pre>	
372	<i>''</i>	return true:	
373		Tetari trac,	
374		J else	
375		else return false:	
376		iccom induction	
377		}	
378		,	~
2.0	1		

OUTPUT Results:

1)Player 0 wins:



2)player 1 wins:



3) Match Draw:

