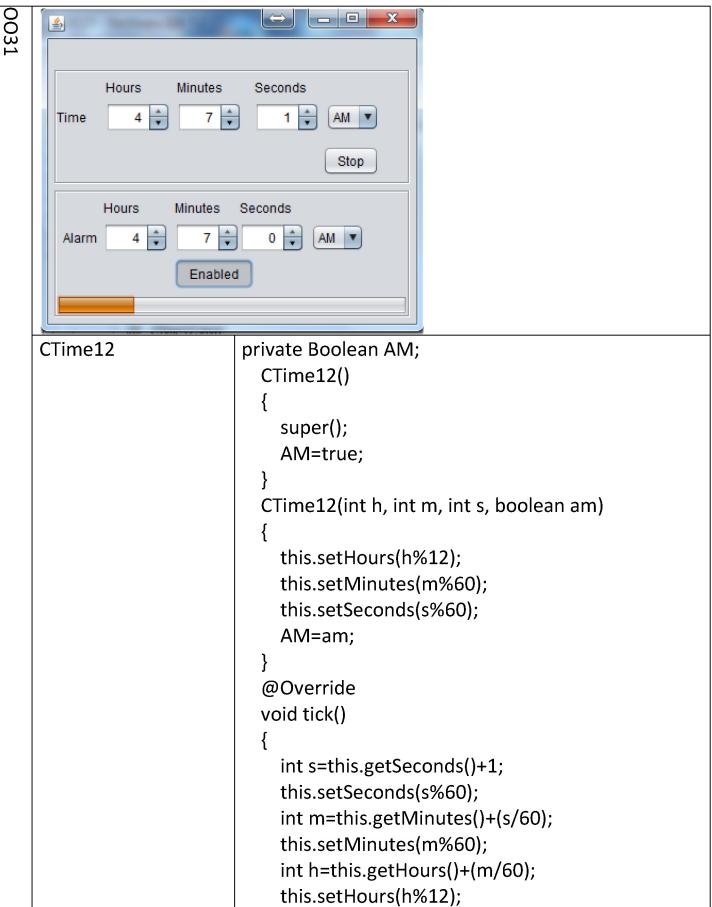


## **Fundamentals of Programming II Lab 10**



```
if((h/12)==1) AM=!(AM);
                        @Override
                        long convert2Seconds()
                          long S;
                      S=(this.getHours()*60*60)+(this.getMinutes()*60)+t
                      his.getSeconds();
                          if(!AM)S=S+((12*60*60)+(59*60))+59;
                          return S;
                        @Override
                        long convert2Minutes()
                        {
                          long M;
                          M=(this.getHours()*60)+(this.getMinutes());
                          if(!AM)M=M+(12*60)+59;
                          return M;
                        void setAM(boolean am)
                          AM=am;
                        boolean getAM()
                          return AM;
                      CTime12 ct = new CTime12();
Form class
declaration
                        CTime12 alarm=new CTime12();
                      t = new Timer(1000, new ActionListener() {
Form constructor
                             @Override
                            public void actionPerformed(ActionEvent e) {
                               ct.tick();
                              jSpinner1.setValue(ct.getSeconds());
                               jSpinner2.setValue(ct.getMinutes());
```



```
jSpinner3.setValue(ct.getHours());
                                int i=0;
                                if(ct.getAM())i=0;
                                else i=1;
                                jComboBox1.setSelectedIndex(i);
                       if((jToggleButton1.isSelected())&&(ct.compareToM(a
                       larm)))
                                {
                                  Toolkit.getDefaultToolkit().beep();
                       jProgressBar1.setValue((jProgressBar1.getValue()+1)
                       %10);
                                else jProgressBar1.setValue(0);
                           });
                           t.start();
                       jSpinner3.setValue(Integer.parseInt(jSpinner3.getVal
jSpinner3StateChang
ed
                       ue().toString())%12);
                       ct.setHours(Integer.parseInt(jSpinner3.getValue().to
                       String()));
                       jSpinner6.setValue(Integer.parseInt(jSpinner6.getVal
jSpinner6StateChang
                       ue().toString())%12);
ed
                       alarm.setHours(Integer.parseInt(jSpinner6.getValue(
                       ).toString())%12);
                       if(jComboBox1.getSelectedIndex()==0)
jComboBox1ActionPe
rformed
                              ct.setAM(true);
                           else
                              ct.setAM(false);
                       if(jComboBox2.getSelectedIndex()==0)
iComboBox2ActionPe
rformed
                              alarm.setAM(true);
                           else
                              alarm.setAM(false);
```



0033 public class Card1 extends Card { Card1 Card1() { super(); } Card1(int suit, int rank) { super(suit, rank); } @Override Card1 copyCard() { return new Card1(this.suit, this.rank); } boolean equalRank(Card c) { if (this.rank == c.rank) { return true; } else { return false; } }}



_		
	Form	Card1[] cards = new Card1[52];
	attributes	
	checkWin	void checkWin() {
		for (int n = 0; n < 52; n++) {
		if (cards[n] == null) {
		continue;
		}
		for (int i = n + 1; i < 52; i++) {
		if (cards[i] == null) {
		continue;
		}
		if (face[n] && face[i]) {
		if (cards[n].equalRank(cards[i])) {
		cards[n] = null;
		cards[i] = null;
		face[n] = false;
		face[i] = false;
		clearCard(i);
		clearCard(n);
		jTextField1.setText("0");
		jTextField2.setText(Integer.toString(((Integer.parseInt(jTextFi
		eld2.getText())) - 2)));
		<pre>if((Integer.parseInt(jTextField2.getText()))==0) {</pre>
		JOptionPane.showMessageDialog(this, "You
		Win","Congratulations",JOptionPane.INFORMATION_MESSA
		GE);
		}
		}
		}
		}
		}
		, 1



```
B1MouseClic
                int i = 0;
                     if (face[i]) {
ked
                       face[i] = false;
                jTextField1.setText(Integer.toString(((Integer.parseInt(jTextFi
                eld1.getText())) - 1)));
                     } else {
                       if (Integer.parseInt(jTextField1.getText()) < 2) {</pre>
                          face[i] = true;
                jTextField1.setText(Integer.toString(((Integer.parseInt(jTextFi
                eld1.getText())) + 1)));
                     renderCard(i);
                     checkWin();
                int i = 1;
B2MouseClic
                     if (face[i]) {
ked
                       face[i] = false;
                jTextField1.setText(Integer.toString(((Integer.parseInt(jTextFi
                eld1.getText())) - 1)));
                     } else {
                       if (Integer.parseInt(jTextField1.getText()) < 2) {</pre>
                          face[i] = true;
                jTextField1.setText(Integer.toString(((Integer.parseInt(jTextFi
                eld1.getText())) + 1)));
                     renderCard(i);
                     checkWin();
```