

//POP

```
import java.awt.Container;
import java.awt.Image;
import java.awt.Point;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import java.io.File;
import java.io.IOException;
```

```
import javax.swing.Timer;
import javax.imageio.ImageIO;
import javax.swing.ImageIcon;
import javax.swing.JFrame;
import javax.swing.JLabel;
import javax.swing.JTextArea;
import javax.swing.JTextField;
```

```
public class popAI {
public static JFrame fr;
public static JLabel l;
public static JTextArea planf;
public static Image backI;
public static ImageIcon backi;
public static Container c;
public static String action[]={"start","Finish","doSubmission","Publish","Give Exam","Apply
for studies","Give GRE","Shortlist course"},effect[]={"TermEnd() ^ AllAssignmentChecked() ^
PaperWritingStarted() ^ ProjectSelected() ^
NoFamilyFunction()", "", "SubmissionDone()", "PaperPublished()", "ExamFinish()", "AppliedGRE
()", "GREGiven()", "CoursesFixed()"};
public static String preconditions[]={" ", "AppliedForHigherStudies()", "TermEnd() ^
AllAssignmentsChecked() ^ NoFamilyFunction()", "PaperWritingStarted() ^
ProjectSelected()", "SubmissionDone() ^ PaperPublished()", "ExamFinished() ^
GREGiven()", "SubmissionFinished() ^ ExamFinished()", "GREGiven() ^ ExamFinished()"};
private JLabel First;
private JLabel Second;
private JLabel third;
public static int i;
public static Timer tm;
private JLabel fourth;
    public popAI() throws Exception {
        fr=new JFrame();
        fr.setBounds(0, 0, 1300, 700);
        c=fr.getContentPane();
        l=new JLabel();
        l.setBounds(50, 100, 500, 450);
```

```

planf=new JTextArea();
planf.setBounds(630, 100, 800, 550);

First = new JLabel();
First.setBounds(100, 111, 361, 190);
First.setOpaque(true);

Second = new JLabel();
Second.setBounds(83, 305, 205, 245);
Second.setOpaque(true);

backI = ImageIO.read(new File("/BE/CI2 Pract/src/1.png"));
backI = backI.getScaledInstance(l.getWidth(),
l.getHeight(),Image.SCALE_REPLICATE);
backi = new ImageIcon(backI);
l.setIcon(backi);
planf.append("-----Partial Order planning-----\n\n");
System.out.print("prec::"+effect.length);

third = new JLabel();
third.setBounds(486, 265, 83, 63);
third.setOpaque(true);
fourth = new JLabel();
fourth.setBounds(283, 298, 275, 253);
fourth.setOpaque(true);
fr.getContentPane().add(fourth);

fr.getContentPane().add(third);
fr.getContentPane().add(First);
fr.getContentPane().add(Second);
c.add(planf);
c.add(l);
fr.getContentPane().setLayout(null);

tm=new Timer(2000, new ActionListener() {
@Override
    public void actionPerformed(ActionEvent e) {

        if(i<8){
            if(i==1){
                First.setVisible(false);

            }
            else if(i==2){
                Second.setVisible(false);

```

```

    }
    else if(i==3){
        fourth.setVisible(false);
        third.setVisible(false);
    }

    planf.append("Action: "+action[i]+"\\n"+"Preconditions:
"+preconditions[i]+"\\nEffects: "+effect[i]+"\\n\\n");
    i++;
    }
    else{
        tm.stop();
    }
}

});

tm.start();

fr.setVisible(true);
}

public static void main(String arr[]) throws Exception{
    popAI a=new popAI();
}
}

```

Output

