**OBJECT ORIENTED PROGRAMMING LAB**

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| **House.java** | **package** lab;  **import** java.applet.Applet;  **import** java.awt.Button;  **import** java.awt.Color;  **import** java.awt.Frame;  **import** java.awt.Graphics;  **import** java.awt.event.ActionEvent;  **import** java.awt.event.ActionListener;  **import** java.io.BufferedReader;  **import** java.io.BufferedWriter;  **import** java.io.File;  **import** java.io.FileNotFoundException;  **import** java.io.FileReader;  **import** java.io.FileWriter;  **import** java.io.IOException;  **import** java.io.\*;  **import** java.util.\*;  **import** java.util.ArrayList;  **import** java.util.Scanner;  **public** **class** house **extends** Applet **implements** ActionListener  {  **int** x[]={50,90,130},y[]={50,10,50},n=0,i=0;  String str;  Button day,night;  ArrayList<String> al = **new** ArrayList<>();  ArrayList<String> al2 = **new** ArrayList<>();  **public** **void** init()  {    setSize(500, 500);  setLayout(**null**);  day = **new** Button("DAY");  night = **new** Button("NIGHT");  day.setBounds(50, 200, 50, 20);  night.setBounds(120, 200, 50, 20);  add(day);  add(night);  day.addActionListener(**this**);  night.addActionListener(**this**);  }  **public** **void** paint(Graphics g)  {    // x[] = {180,135,310};  // y[] = [40,20,40];  g.drawPolygon(x,y,3);  // g.drawLine(50, 20, 50, 80);  g.drawRect(50, 50, 80, 100);  g.drawRect(75, 100, 30, 50);      }  **public** **void** getData()  {  String name;    Scanner sc = **new** Scanner(System.***in***);  System.***out***.println("Enter the number of names");  n = sc.nextInt();  sc.nextLine();  System.***out***.println("Enter the male names");    **for**(**int** i=0;i<n;i++)  {  name = sc.nextLine();  al.add(name);  }  }  **public** **void** getData2()  {  String name;    Scanner sc = **new** Scanner(System.***in***);  System.***out***.println("Enter the number of names");  n = sc.nextInt();  sc.nextLine();  System.***out***.println("Enter the female names");    **for**(**int** i=0;i<n;i++)  {  name = sc.nextLine();  al2.add(name);  }  }  **public** **void** sun()  {    File fm = **new** File("C:\\Users\\Admin\\workspace\\lab\\src\\lab\\DAY.txt");    **try** {  FileWriter fw = **new** FileWriter(fm,**true**);  BufferedWriter bw = **new** BufferedWriter(fw);  FileReader frMale = **new** FileReader(fm);  BufferedReader br = **new** BufferedReader(frMale);    getData();  i=0;  **while**(i!=n)  {  // if(i==n){  // System.out.println("break");  // break;}  bw.flush();  bw.write(al.get(i));  bw.write("\n");  bw.flush();  // System.out.println(al.get(i));  i++;  }  System.***out***.println("Details Male:-");  **while**((str=br.readLine())!=**null**)  {  System.***out***.println(str);  }  } **catch** (FileNotFoundException e) {  // **TODO** Auto-generated catch block  e.printStackTrace();  } **catch** (IOException e) {  // **TODO** Auto-generated catch block  e.printStackTrace();  } **catch** (IndexOutOfBoundsException e) {  // **TODO**: handle exception  }  Graphics g = getGraphics();  g.setColor(Color.***yellow***);  g.fillOval(150, 0, 50, 50);    }  **public** **void** moon()  {    File ff = **new** File("C:\\Users\\Admin\\workspace\\lab\\src\\lab\\NIGHT.txt");  **try** {  FileWriter fw = **new** FileWriter(ff,**true**);  BufferedWriter bw = **new** BufferedWriter(fw);  FileReader frFemale = **new** FileReader(ff);  BufferedReader br = **new** BufferedReader(frFemale);    getData2();  **for**(**int** i=0;i<=n;i++)  {  bw.flush();  bw.write(al2.get(i));  bw.write("\n");  bw.flush();  // if(i==0)  // break;  }  System.***out***.println("Details Female:-");  **while**((str=br.readLine())!=**null**)  {  System.***out***.println(str);  }  } **catch** (FileNotFoundException e) {  // **TODO** Auto-generated catch block  e.printStackTrace();  } **catch** (IOException e) {  // **TODO** Auto-generated catch block  e.printStackTrace();  } **catch** (IndexOutOfBoundsException e) {  // **TODO**: handle exception  }  Graphics g = getGraphics();  g.setColor(Color.***gray***);  g.fillOval(150, 0, 50, 50);    }  @Override  **public** **void** actionPerformed(ActionEvent e) {  // **TODO** Auto-generated method stub  **if**(e.getSource()==day)  {  sun();  }  **else**  {  moon();  }    }  } |