20MCA132:OBJECT ORIENTED PPROGRAMMING LAB EXAM

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TKM20MCA-2038

MCA-238

QUESTION : DRAW A HOUSE

Use 2 button day and night.

- When day is clicked ,display the image of sun on the top corner with white background color. Also a file namde "day" contains the list of males students in your class should be displayed on the console.

- When night is clicked ,display the image of moon on the corner with black or grey background color.Also a file named "NIGHT" contains the list of female students in your class.

PROGRAM CODE

```
package house;

import java.awt.*;

import java.applet.*;

import java.awt.event.*;

import java.io.*;

import java.io.IOException;

import java.io.FileWriter;

import java.io.BufferedWriter;

import java.util.ArrayList;

import java.util.Scanner;
```

```java
public class house extends Applet implements ActionListener {

    public void init() {

        Button bd =new Button("DAY");

        Button bn =new Button("NIGHT");


        setLayout(null);

        bd.setBounds(150,10,70,80);

        bn.setBounds(250,10,70,80);

        add(bd);

        add(bn);


        bd.addActionListener(this);

        bn.addActionListener(this);

    }


    public void actionPerformed (ActionEvent e){


    }


    public void paint(Graphics g){

        int x[] ={100,250,400};
```

```java
		int y[]={300,100,300};

		g.setColor(Color.pink);

		g.fillRect(100, 300, 300, 400);

		g.setColor(Color.blue);

		g.fillRect(200,450,100,250);

		g.setColor(Color.cyan);

		g.fillPolygon(x,y,3);

		g.setColor(Color.yellow);

		g.fillOval(600, 10,150,150);




	}



	public static void main(String[] args)throws IOException {

		int nb,ng,i;

		String sb,sg;

		Scanner sc=new Scanner(System.in);

		System.out.println("Enter No ; of Boys");

		nb=sc.nextInt();

		System.out.println("Enter No ; of Girls");

		ng=sc.nextInt();

		ArrayList<String> boys=new ArrayList<String> (nb);

		ArrayList<String> girls=new ArrayList<String> (ng);

		System.out.println("Enter boys list");
```

```java
        for(i=0;i<nb;i++) {

                sb=sc.next();

                boys.add(sb);

                FileWriter fn=new FileWriter("E:\\EXAM1\\day.txt",true);

                fn.append(sb+"\n");

                fn.close();


        }
        System.out.println("Enter girls list");
        for(i=0;i<ng;i++) {

                sg=sc.next();

                girls.add(sg);

                FileWriter fn=new FileWriter("E:\\EXAM1\\night.txt",true);

                fn.append(sg+"\n");

                fn.close();
        }
        System.out.println("Boys list is " +boys);

        System.out.println("Girls list is " +girls);


    }


}
```

OUTPUT

Java - Eclipse

File Edit Navigate Search Project Run Window Help

Quick Access

Package Explorer

```
house
  src
    house
      house.java
      sam.java
  JRE System Library [JavaSE-1.8]
```

Declaration   Console   house.java   sam.java

<terminated> house (1) [Java Application] C:\Program Files\Java\jdk1.8.0_161\bin\javaw.exe (Oct 8, 2021, 4:39:30 PM)

```
Enter No : of Boys
4
Enter No : of Girls
2
Enter boys list
SHAD
NITHIN
ARUN
MANU
Enter girls list
SHANA
RASIKA
Boys list is [SHAD, NITHIN, ARUN, MANU]
Girls list is [SHANA, RASIKA]
```
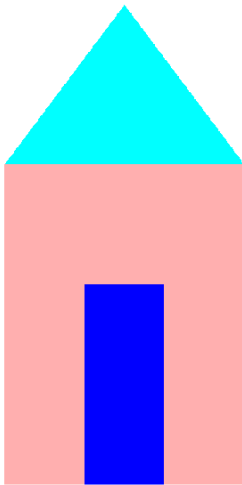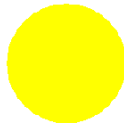
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Applet

DAY   NIGHT

Applet started.

EXAM1

File   Home   Share   View

Pin to Quick access | Copy | Paste | Cut | Copy path | Paste shortcut | Move to | Copy to | Delete | Rename | New folder | New item | Easy access | Properties | Open | Edit | History | Select all | Select none | Invert selection

Clipboard   Organize   New   Open   Select

This PC > Local Disk (E:) > EXAM1   Search EXAM1

Documents
Downloads
Music
Pictures
Videos
Local Disk (C:)
Local Disk (E:)
    exam
    EXAM1
    MCA1
    MCA2
    MCA3
    MCA4
    MCA5
    MCA230
    software

Name	Date modified	Type	Size
day.txt	10/8/2021 4:40 PM	Text Document	1 KB
night.txt	10/8/2021 4:40 PM	Text Document	1 KB

2 items   1 item selected 13 bytes