

OBJECT ORIENTED PROGRAMMING CONCEPTS THROUGH JAVA

SMART ATTENDANCE SYSTEM

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PROBLEM STATEMENT:

Develop an attendance application using java frameworks which stores the students details in a file and mark day-to-day attendance percentage .

- 1) Register all the student details in a file.
- 2) Faculty or student login in to the homepage.
- 3) Mark attendance according to the rollno's.
- 4) Students check the attendance in Home page(portal).

REQUIREMENTS:

- 1) Java util packages.
- 2) Exception handling
- 3) Java frame works.

4) Files

CONCEPTS:

- 1) Compiletime-polymorphism(constructor overloading)-In Homepage.
- 2) Inheritance
- 3) Interface
- 4) ArrayList
- 5) IO streams

Source Code:

1)Application.java

```
import java.io.*;
import java.lang.*;
import java.util.*;
import javax.swing.*;
import java.awt.Color;
import java.awt.Graphics;
import java.awt.Image;
import java.awt.Shape;
import java.awt.event.*;
import java.awt.Color;
import java.awt.Dimension;
import java.awt.Font;
public class Application {
    static int cnt=0;
    Icon icon;
    Application()
    {
```

```

JFrame jf=new JFrame ("SR Engineering college");
JLabel jl=new JLabel("Select Option:");
jl.setBounds(150,20,100,100);
jf.add(jl);
jf.setSize(500,500);
jf.setLayout(null);
jf.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
jf.setVisible(true);
JButton jb=new JButton("Student");
jb.setBounds(100,100,90,40);
boolean flag=true;
jb.addActionListener(new ActionListener() {

    @Override
    public void actionPerformed(ActionEvent e) {
        if(flag)
        {
            new loginn();
            jf.setVisible(false);
        }

    }

});

jf.add(jb);
JButton jh=new JButton("Staff");
jh.setBounds(200,100,90,40);
jh.addActionListener(new ActionListener() {

    @Override
    public void actionPerformed(ActionEvent e) {
        // TODO Auto-generated method stub
        JFrame j1=new JFrame("Login Details");
        j1.setSize(500,500);
        j1.setLayout(null);
        j1.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        j1.setVisible(true);
        JLabel j2,j3;
        j2=new JLabel("Enter Subject");
        j3=new JLabel("Enter Password");
        j2.setBounds(100,60,100,30);
        j1.add(j2);
        j3.setBounds(200,60,100,30);
        j1.add(j3);
        JTextField jt=new JTextField("");
        jt.setBounds(100,100,70,20);
    }
});

```

```

j1.add(jt);
JPasswordField jp=new JPasswordField("");
jp.setBounds(200,100,70,20);
j1.add(jp);
JButton jj=new JButton("OK");
jj.setBackground(Color.yellow);
jj.setBounds(150,150,70,20);
jj.addActionListener(new ActionListener() {

```

```

@Override
public void actionPerformed(ActionEvent e) {
    // TODO Auto-generated method stub
    String n1="OOPc";
    String n3="DBMS";
    String n4="P&S";
    String n5="Mpes";
    int oi1=456;
    int oi=123;
    int oi2=789;
    int oi3=000;
    int p = Integer.parseInt(jp.getText());
    String n2=jt.getText();
    try
    {
        if(cnt== 0)
        {
            cnt++;
            if((oi==p) && (n1.equalsIgnoreCase(n2)))
            {
                new Attendance();

                j1.setVisible(false);
                jf.setVisible(false);
            }
            else if ((oi1==p) && (n3.equalsIgnoreCase(n2)))
            {
                new Attendance();

                j1.setVisible(false);
                jf.setVisible(false);
            }
            else if ((oi2==p) && (n4.equalsIgnoreCase(n2)))
            {
                new Attendance();

                j1.setVisible(false);

```

```

        jf.setVisible(false);
    }
    else if ((oi3==p) && (n5.equalsIgnoreCase(n2)))
    {
        new Attendance();
        j1.setVisible(false);
        jf.setVisible(false);
    }
    else
    {
        JOptionPane.showMessageDialog(j1,
"RE-Enter valid details!", "CAUTION",JOptionPane.WARNING_MESSAGE);

        jt.setText("");
        jp.setText("");

    }

    else
    {

JOptionPane.showMessageDialog(j1,"*** Attendance Already
Recorded***","INFORMATION",JOptionPane.INFORMATION_MESSAGE);

        j1.setVisible(false);
        cnt--;

    }
    }
    catch(Exception ae)
    {
        ae.printStackTrace();
    }

    }
});
j1.add(jj);

j1.getContentPane().setBackground(Color.CYAN);

    }
});

```

```

        jf.add(jh);
        jh.setBackground(Color.blue);
        jb.setBackground(Color.green);
        // jl.setBackground(Color.pink);
        jf.setBackground(Color.pink);
        jf.setPreferredSize(new Dimension(500, 500));
        jf.getContentPane().setBackground(Color.WHITE);
        jf.pack();
        jf.setVisible(true);
        jl.setBackground(Color.darkGray);
    }
    public static void main(String[] args) {
        new Application();
    }
}

```

Output:



Here student can login to Homepage and faculty can login in to attendance page

2)HomePage.java

```

import java.io.*;

import java.util.*;

import javax.swing.*;

```

```

import java.awt.Color;
import java.awt.event.*;

public class HomePage extends loginn{
    int id;

    String name;

    public static void main(String[] args) {
        new HomePage();
    }

    HomePage(){
        initialize();
    }

    HomePage(String name,int id){
        this.id=id;
        this.name = name;
        initialize();
    }


    FileInputStream f1;
    ObjectInputStream on;
    ArrayList<Friend> arl =new ArrayList<Friend>();
    void initialize(){
        JFrame jf;
        JLabel jl;
        JTextField tf;
        JTextArea jLOp;

```

```
JButton jbBack, jbDisp,jb,jx;
```

```
jf = new JFrame("Home Page");
```

```
jl = new JLabel();
```

```
jl.setBounds(10,10,200,20);
```

```
jf.add(jl);
```

```
jl.setText("Welcome Mr. "+name);
```

```
jLOp = new JTextArea("ID"+"\\t"+"Name"+"\\t"+"Branch");
```

```
jLOp.setBounds(60,110,250,290);
```

```
jf.add(jLOp);
```

```
jbBack = new JButton("<<Back");
```

```
jbBack.setBounds(10,40,100,20);
```

```
jbBack.addActionListener(new ActionListener(){
```

```
public void actionPerformed(ActionEvent e){
```

```
new loginn();
```

```
jf.setVisible(false);
```

```
}
```

```
});
```

```
jf.add(jbBack);
```



```
jx = new JButton("Close>>");
jx.setBounds(400,40,80,20);
boolean flag=true;
jx.addActionListener(new ActionListener(){
    public void actionPerformed(ActionEvent e){
        if(flag)
        {
            new Application();
            jf.setVisible(false);
        }
    }
});
jf.add(jx);
```

```
tf=new JTextField();
tf.setBounds(270,70,40,20);
jf.add(tf);
jb = new JButton("Attendance");
jb.setBounds(250,40,100,20);
jf.add(jb);
```

```
jbDisp = new JButton("Display");
jbDisp.setBounds(120,40,100,20);
jbDisp.addActionListener(new ActionListener(){
```

```

public void actionPerformed(ActionEvent e){
    try {
        FileInputStream fin=new FileInputStream("MyFile23");
        ObjectInputStream ois=new ObjectInputStream(fin);
        ArrayList<Student> al1;
        int row = 0;
        String op = new String("");
        boolean flag = false;
        if(id==501)
        {
            jLOp.setText(id+"\t"+name+"\t"+"CSE");
            jb.addActionListener(new ActionListener(){
                public void actionPerformed(ActionEvent e){
                    try {
                        f1=new FileInputStream("Madam.txt");
                        on=new ObjectInputStream(f1);
                        String pp=new String("");
                        boolean flag = false;
                        arl=(ArrayList)on.readObject();
                        Iterator<Friend> i=arl.iterator();
                        Friend e1=i.next();
                        pp += e1.getNN1() + "\t" + e1.getC1()+"\n";

                        tf.setText(""+e1.getC1());
                    }
                }
            });
        }
    }
}

```

```

catch(Exception ww) {
    ww.printStackTrace();
}

}

});

}

if(id==502)
{
    jLOp.setText(id+"\t"+name+"\t"+"CSE");
    jb.addActionListener(new ActionListener(){

        public void actionPerformed(ActionEvent e){
            try {
                f1=new FileInputStream("Madam.txt");
                on=new ObjectInputStream(f1);
                String pp=new String("");
                boolean flag = false;
                arl=(ArrayList)on.readObject();
                Iterator<Friend> i=arl.iterator();

                Friend e1=i.next();
                pp += e1.getNN2() + "\t" + e1.getQ1()+"\n";
            }
        }
    });
}

```

```
tf.setText(""+e1.getQ1());
```

```
}
```

```
catch(Exception ww) {
```

```
ww.printStackTrace();
```

```
}
```

```
}
```

```
});
```

```
}
```

```
if(id==503)
```

```
{
```

```
jLOp.setText(id+"\t"+name+"\t"+"CSE");
```

```
jb.addActionListener(new ActionListener(){
```

```
public void actionPerformed(ActionEvent e){
```

```
try {
```

```
f1=new FileInputStream("Madam.txt");
```

```
on=new ObjectInputStream(f1);
```

```
String pp=new String("");
```

```
boolean flag = false;
```

```
arl=(ArrayList)on.readObject();
```

```
Iterator<Friend> i=arl.iterator();
```

```

Friend e1=i.next();

pp += e1.getNN3() + "\t" + e1.getW1()+"\n";


tf.setText(""+e1.getW1());
}
catch(Exception ww) {
ww.printStackTrace();
}

}

});

}

if(id==504)
{

jLOp.setText(id+"\t"+name+"\t"+"CSE");
jb.addActionListener(new ActionListener(){

public void actionPerformed(ActionEvent e){
try {
f1=new FileInputStream("Madam.txt");
on=new ObjectInputStream(f1);
String pp=new String("");

```

```

boolean flag = false;

arl=(ArrayList)on.readObject();

Iterator<Friend> i=arl.iterator();


Friend e1=i.next();

pp += e1.getNN4() + "\t" + e1.getL1()+"\n";


tf.setText(""+e1.getL1());
}
catch(Exception ww) {
ww.printStackTrace();
}

}

});

}

if(id==505)
{

jLOp.setText(id+"\t"+name+"\t"+"CSE");
jb.addActionListener(new ActionListener(){

public void actionPerformed(ActionEvent e){
try {

```

```

f1=new FileInputStream("Madam.txt");
on=new ObjectInputStream(f1);
String pp=new String("");
boolean flag = false;
arl=(ArrayList)on.readObject();
Iterator<Friend> i=arl.iterator();

Friend e1=i.next();
pp += e1.getNN5() + "\t" + e1.getMM1()+"\n";

tf.setText(""+e1.getMM1());
}
catch(Exception ww) {
ww.printStackTrace();
}

}

});

}

if(id==506)
{

jLOp.setText(id+"\t"+name+"\t"+"CSE");
jb.addActionListener(new ActionListener(){

```

```
public void actionPerformed(ActionEvent e){
    try {
        f1=new FileInputStream("Madam.txt");
        on=new ObjectInputStream(f1);
        String pp=new String("");
        boolean flag = false;
        arl=(ArrayList)on.readObject();
        Iterator<Friend> i=arl.iterator();

        Friend e1=i.next();
        pp += e1.getNN6() + "\t" + e1.getT1()+"\n";

        tf.setText(""+e1.getT1());
    }
    catch(Exception ww) {
        ww.printStackTrace();
    }

}

});

}

if(id==507)
{
```



```
jLOp.setText(id+"\t"+name+"\t"+"CSE");
jb.addActionListener(new ActionListener(){

    public void actionPerformed(ActionEvent e){
        try {
            f1=new FileInputStream("Madam.txt");
            on=new ObjectInputStream(f1);
            String pp=new String("");
            boolean flag = false;
            arl=(ArrayList)on.readObject();
            Iterator<Friend> i=arl.iterator();

            Friend e1=i.next();
            pp += e1.getNN7() + "\t" + e1.getZ1()+"\n";

            tf.setText(""+e1.getZ1());
        }
        catch(Exception ww) {
            ww.printStackTrace();
        }

    }
});
```

```

}
if(id==508)
{

jLop.setText(id+"\t"+name+"\t"+"CSE");
jb.addActionListener(new ActionListener(){

public void actionPerformed(ActionEvent e){
try {
f1=new FileInputStream("Madam.txt");
on=new ObjectInputStream(f1);
String pp=new String("");
boolean flag = false;
arl=(ArrayList)on.readObject();
Iterator<Friend> i=arl.iterator();

Friend e1=i.next();
pp += e1.getNN8() + "\t" + e1.getY1()+"\n";

tf.setText(""+e1.getY1());
}
catch(Exception ww) {
ww.printStackTrace();
}
}
}

```

```
}  
});
```

```
}  
}
```

```
catch(Exception er){}
```

```
}
```

```
});
```

```
jf.add(jbDisp);
```

```
jf.setSize(500,500);
```

```
jf.setLayout(null);
```

```
jf.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
```

```
jf.setVisible(true);
```

```
jf.getContentPane().setBackground(Color.yellow);
```

```
}
```

```
}
```

Output:



Here student can check their attendance percentage.

3)Attendance.java

```
import javax.swing.*;

import java.awt.Color;
import java.awt.event.*;
import java.io.FileInputStream;
import java.io.FileOutputStream;
import java.io.ObjectInputStream;
import java.io.ObjectOutputStream;
import java.io.Serializable;
import java.util.ArrayList;

class Friend implements Serializable{
    String nn1,nn2,nn3,nn4,nn5,nn6,nn7,nn8;
    double c1,q1,w1,l1,mm1,t1,z1,y1;
```

```
Friend(String nn1 ,String nn2,String nn3,String nn4,String nn5,String nn6,String  
nn7,String nn8,double c1,double q1,double w1,double l1,double mm1,double t1,double  
z1,double y1){
```

```
    this.nn1=nn1;
```

```
    this.nn2=nn2;
```

```
    this.nn3=nn3;
```

```
    this.nn4=nn4;
```

```
    this.nn5=nn5;
```

```
    this.nn6=nn6;
```

```
    this.nn7=nn7;
```

```
    this.nn8=nn8;
```

```
    this.c1=c1;
```

```
    this.q1=q1;
```

```
    this.w1=w1;
```

```
    this.l1=l1;
```

```
    this.mm1=mm1;
```

```
    this.t1=t1;
```

```
    this.z1=z1;
```

```
    this.y1=y1;
```

```
}
```

```
public String getNN1() {
```

```
    return nn1;
```

```
}
```

```
public String getNN2() {
```

```
    return nn2;
```

```
}  
  
public String getNN3() {  
    return nn3;  
}  
  
public String getNN4() {  
    return nn4;  
}  
  
public String getNN5() {  
    return nn5;  
}  
  
public String getNN6() {  
    return nn6;  
}  
  
public String getNN7() {  
    return nn7;  
}  
  
public String getNN8() {  
    return nn8;  
}  
  
public double getC1() {  
    return c1;  
}  
  
public double getQ1() {  
    return q1;  
}
```

```
        public double getW1() {  
            return w1;  
        }  
        public double getL1() {  
            return l1;  
        }  
        public double getMM1() {  
            return mm1;  
        }  
        public double getT1() {  
            return t1;  
        }  
        public double getZ1() {  
            return z1;  
        }  
        public double getY1() {  
            return y1;  
        }  
    }  
  
    public class Attendance extends Application {  
        static String n1;  
        static String n2;
```

```

static String n3;
static String n4;
static String n5;
static String n6;
static String n7;
static String n8;
static double c=10,q=10,w=10,l=10,r=10,t=10,z=10,y=10,c1=1;

public static void main(String[] args) {

    new Attendance( );
}
Attendance()
{
    Intialize();
}
ArrayList<Friend> al=new ArrayList<Friend>();
FileOutputStream fout;
    ObjectOutputStream oos;
    FileInputStream fin;
    ObjectInputStream ois;

void Intialize()
{
JFrame jf=new JFrame ("SREC-CMS Portal");

```



```
JLabel jl,j1,j2,j3,j4,j5,j6,j7,j8,jm;  
jl=new JLabel("ATTENDENCE");  
jm=new JLabel("Presenties");
```

```
jm.setBounds(30,200,400,20);  
jl.setBounds(45,20,400,20);  
jf.add(jl);  
j1=new JLabel();
```

```
j1.setBounds(30,220,400,20);  
jf.add(j1);
```

```
j2=new JLabel();  
j2.setBounds(30,240,100,20);  
jf.add(j2);
```

```
j3=new JLabel();  
j3.setBounds(30,260,100,20);  
jf.add(j3);
```

```
j4=new JLabel();  
j4.setBounds(30,280,100,20);  
jf.add(j4);
```

```
j5=new JLabel();  
j5.setBounds(30,300,100,20);  
jf.add(j5);
```

```
j6=new JLabel();  
j6.setBounds(30,320,100,20);
```

```

jf.add(j6);
j7=new JLabel();
j7.setBounds(30,340,400,20);
jf.add(j7);
j8=new JLabel();
j8.setBounds(30,360,400,20);
jf.add(j8);
JTextField jty=new JTextField();
JRadioButton r1,r2,r3,r4,r5,r6,r7,r8;
r1=new JRadioButton("501");
r1.setBounds(30,40,100,20);
r1.addItemListener(new ItemListener(){
public void itemStateChanged(ItemEvent arg0){
j1.setText("501");
c=c+(c*0.5);

}
});
jf.add(r1);
r2=new JRadioButton("502");
r2.setBounds(30,60,100,20);
r2.addItemListener(new ItemListener(){
public void itemStateChanged(ItemEvent arg0){
j2.setText("502");
q=q+(q*0.5);

```

```
}  
});  
jf.add(r2);  
r3=new JRadioButton("503");  
r3.setBounds(30,80,100,20);  
r3.addItemListener(new ItemListener(){  
    public void itemStateChanged(ItemEvent arg0){  
        j3.setText("503");  
  
        w=w+(w*0.5);  
    }  
});  
jf.add(r3);  
r4=new JRadioButton("504");  
r4.addItemListener(new ItemListener(){  
    public void itemStateChanged(ItemEvent arg0){  
        j4.setText("504");  
        l=l+(l*0.5);  
  
    }  
});  
r4.setBounds(30,100,100,20);  
jf.add(r4);  
r5=new JRadioButton("505");
```

```
r5.setBounds(160,40,100,20);
r5.addItemListener(new ItemListener(){
    public void itemStateChanged(ItemEvent arg0){
        j5.setText("505");
        r=r+(r*0.5);

    }
});
jf.add(r5);
r6=new JRadioButton("506");
r6.setBounds(160,60,100,20);
r6.addItemListener(new ItemListener(){
    public void itemStateChanged(ItemEvent arg0){
        j6.setText("506");
        t=t+(t*0.5);

    }
});
jf.add(r6);
r7=new JRadioButton("507");
r7.addItemListener(new ItemListener(){
    public void itemStateChanged(ItemEvent arg0){
        j7.setText("507");

        z=z+(z*0.5);
```

```
}  
});  
r7.setBounds(160,80,100,20);  
jf.add(r7);  
r8=new JRadioButton("508");  
r8.setBounds(160,100,100,20);  
r8.addItemListener(new ItemListener(){  
    public void itemStateChanged(ItemEvent arg0){  
        j8.setText("508");  
  
        y=y+(y*0.5);  
  
    }  
});  
jf.add(r8);  
JButton jb;  
jb=new JButton("Click");  
jb.setBackground(Color.lightGray);  
jb.setBounds(150,195,90,20);  
jb.addActionListener(new ActionListener(){  
    public void actionPerformed(ActionEvent e){  
        JFrame jf1=new JFrame("\tATTENDENCE-List\t");  
        jf1.setSize(500,500);  
        jf1.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
```

```
jf1.setLayout(null);  
jf1.setVisible(true);  
jf1.getContentPane().setBackground(Color.YELLOW);  
jm.setText("Presenties:"+"\n");jf1.add(jm);  
String n1=j1.getText();  
j1.setText(n1);jf1.add(j1);  
String n2=j2.getText();  
j2.setText(n2);jf1.add(j2);  
String n3=j3.getText();  
j3.setText(n3);jf1.add(j3);  
String n4=j4.getText();  
j4.setText(n4);jf1.add(j4);  
String n5=j5.getText();  
j5.setText(n5);jf1.add(j5);  
String n6=j6.getText();  
j6.setText(n6);jf1.add(j6);  
String n7=j7.getText();  
j7.setText(n7);jf1.add(j7);  
String n8=j8.getText();  
j8.setText(n8);jf1.add(j8);  
String nn1=j1.getText();  
double c1=c;  
String nn2=j2.getText();  
double q1=q;  
String nn3=j3.getText();
```

```

double w1=w;
String nn4=j4.getText();
double l1=l;
String nn5=j5.getText();
double mm1=r;
String nn6=j6.getText();
double t1=t;
String nn7=j7.getText();
double z1=z;
String nn8=j8.getText();
double y1=y;
al.add(new Friend(n1,n2,n3,n4,n5,n6,n7,n8,c1,q1,w1,l1,mm1,t1,z1,y1));
try {
    fout = new FileOutputStream("Madam.txt");
    oos = new ObjectOutputStream(fout);
    oos.writeObject(al);
}catch(Exception ae){
    ae.printStackTrace();
}
JButton ll=new JButton("submit");
//ll.setBackground(Color.PINK);
boolean fla=true;
ll.setBounds(250,300,100,20);
ll.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e){

```

```

        if(fla)
        {
            JOptionPane.showMessageDialog(jf1,"*** Sumbit Your Record
***","INFORMATION",JOptionPane.INFORMATION_MESSAGE);

            jf1.setVisible(false);
            jf.setVisible(false);
        }

    }

});
jf1.add(l1);
}
});
jf.add(jb);
jf.setSize(500,260);
jf.setLayout(null);
jf.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
jf.setVisible(true);
jf.getContentPane().setBackground(Color.pink);

    }

}

```

Output:



Here faculty can take attendance to students with their rollno's.

4)Login.java

```
import java.io.*;
import java.util.*;
import javax.swing.*;

import java.awt.Color;
import java.awt.event.*;
class Student implements Serializable {
    int id;
    String name;

    Student(String name, int id) {
        this.name = name;
        this.id = id;
    }

    public int getId(){
        return id;
    }

    public String getName(){
        return name;
    }
}

public class loginn extends Attendance{
    String name;
```

```

loginn()
{

initialize();
}
loginn(String name){
this.name = name;
initialize();
}

```

```

FileOutputStream fout;
ObjectOutputStream oos;
FileInputStream fin;
ObjectInputStream ois;

```

```

void initialize() {
ArrayList<Student> al=new ArrayList<Student>();
JFrame jf;
JLabel jLId, jLName;
JTextArea jLOp;
JTextField jTId, kk;
JPasswordField jTName;
JButton jBReg, jBDisp, jBLogin;

```

```

jf = new JFrame("SREC Student Register");
jf.getContentPane().setLayout(null);

```

```

jLId = new JLabel("Enter your id:");
jLId.setBounds(40, 10, 100, 20);
jf.getContentPane().add(jLId);

```

```

jTId = new JTextField();
jTId.setBounds(150, 10, 100, 20);
jf.getContentPane().add(jTId);
kk = new JTextField("Note: Enter valid details");
kk.setBounds(60, 370, 200, 20);
jf.getContentPane().add(kk);

```

```

jLName = new JLabel("Enter your Name:");
jLName.setBounds(40, 40, 100, 20);
jf.getContentPane().add(jLName);

```

```

jTName = new JPasswordField();
jTName.setBounds(150, 40, 100, 20);
jf.getContentPane().add(jTName);

jLOp = new JTextArea();
jLOp.setBounds(60, 140, 200, 200);
jf.getContentPane().add(jLOp);

jBReg = new JButton("Register");
jBReg.setBounds(60, 80, 90, 20);
jBReg.addActionListener(new ActionListener(){
    public void actionPerformed(ActionEvent e){
        int i = Integer.parseInt(jTId.getText());
        String n = jTName.getText();
        al.add(new Student(n,i));
        jTName.setText("");
        jTId.setText("");
        try {
            fout = new FileOutputStream("MyFile23");
            oos = new ObjectOutputStream(fout);
            oos.writeObject(al);
            System.out.println("added");
        }catch(Exception ae){
            ae.printStackTrace();
        }
    }
});
jf.getContentPane().add(jBReg);

jBDisp = new JButton("Login");
jBDisp.setBounds(160, 80, 80, 20);
jBDisp.addActionListener(new ActionListener(){
    public void actionPerformed(ActionEvent e){
        try {
            fin = new FileInputStream("MyFile23");
            ois = new ObjectInputStream(fin);
            ArrayList<Student> al1;
            int row = 0;
            String op = new String("");
            String name = jTName.getText();
            int id = Integer.parseInt(jTId.getText());
            boolean flag = false;
            while((al1=(ArrayList)ois.readObject())!=null){
                Iterator<Student> i=al1.iterator();
                while(i.hasNext()){

```

```

Student e1=i.next();
if(id==e1.getId() && name.equals(e1.getName())){
    flag = true;
    break;
}
else{
    flag = false;
}
}
if(flag){
    new HomePage(name,id);
    jf.setVisible(false);
}
else{
    JOptionPane.showMessageDialog(jf,"Login Failed");
}
jTId.setText("");
jTName.setText("");
}
} catch (Exception er){}
}
});
jf.getContentPane().add(jBDisp);

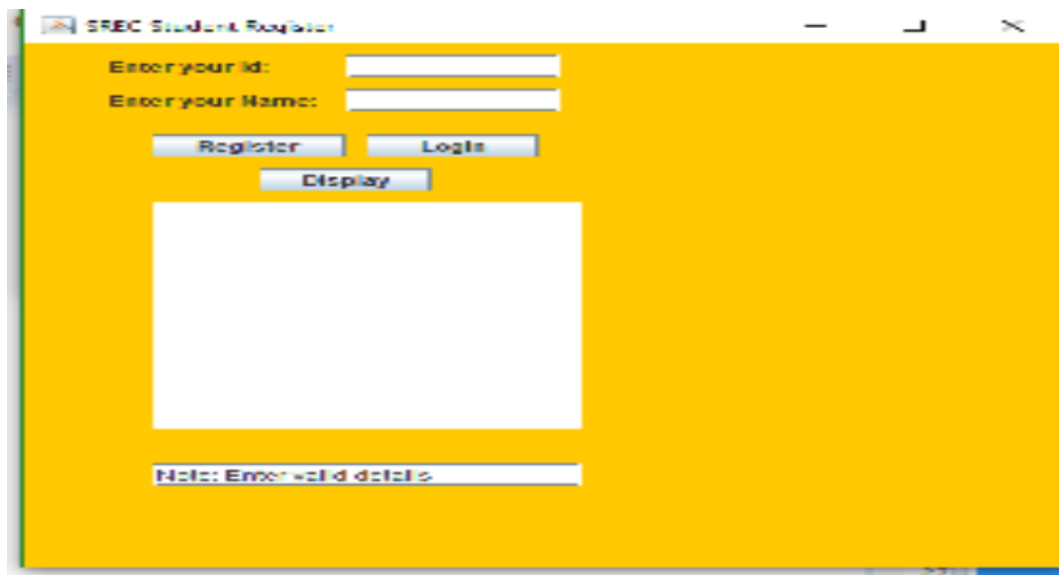
jBLogin = new JButton("Display");
jBLogin.setBounds(110, 110, 80, 20);
jBLogin.addActionListener(new ActionListener(){
    public void actionPerformed(ActionEvent e){
        try {
            fin = new FileInputStream("MyFile23");
            ois = new ObjectInputStream(fin);
            ArrayList<Student> al1;
            int row = 0;
            String op = new String("");
            boolean flag = false;
            while((al1=(ArrayList)ois.readObject())!=null){
                Iterator<Student> i=al1.iterator();
                while(i.hasNext()){
                    Student e1=i.next();
                    op += e1.getId() + "\t" + e1.getName()+"\n";
                }
                jLOp.setText(op);
            }
        } catch (Exception er){}
    }
});

```

```
jf.getContentPane().add(jBLogin);

jf.setSize(500,500);
jf.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
jf.setVisible(true);
jf.getContentPane().setBackground(Color.orange);
}
public static void main(String[] args) {
new loginn();
}
}
```

Output:



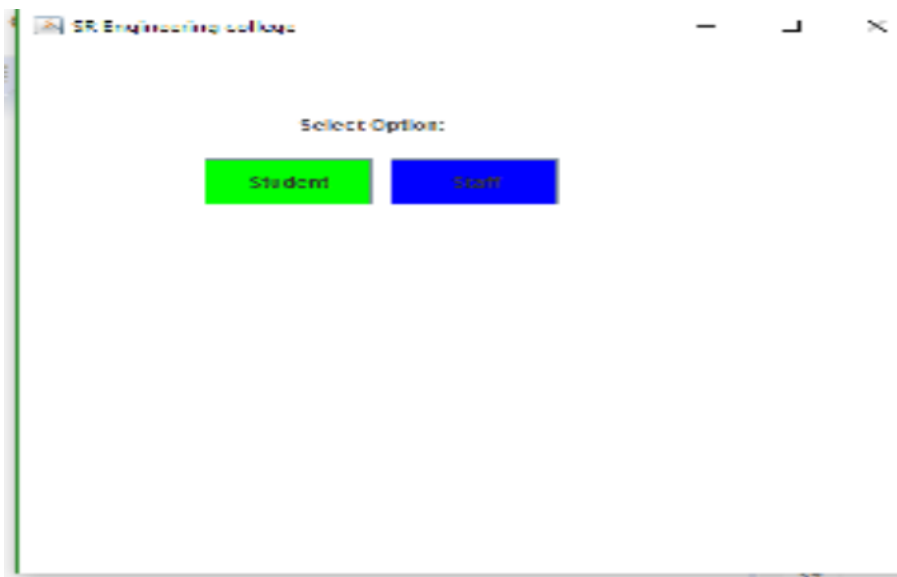
Here student can register in to the attendance form and then login to check their attendance as enters in to Application.java

Result:

Step1: Students got registered in to the application.



Step2:Students click on the student button to enter in to Home page and faculty click on staff button to take attendance



Step3:

I clicked on student and I'm already registered so I entered number :502 and name as akash

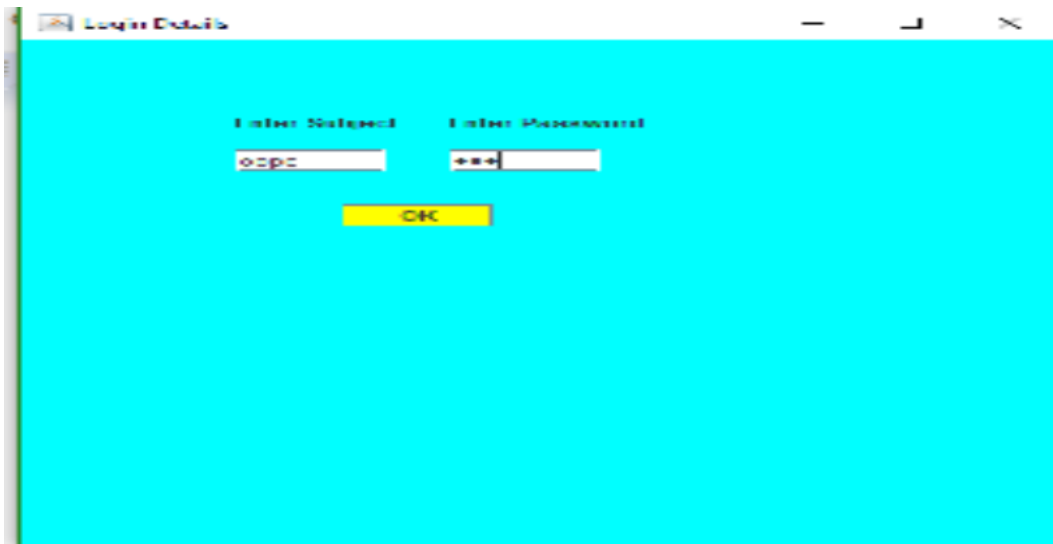


If I click login button attendance was not taken so initial value is 10.0



If click close button back to application page.

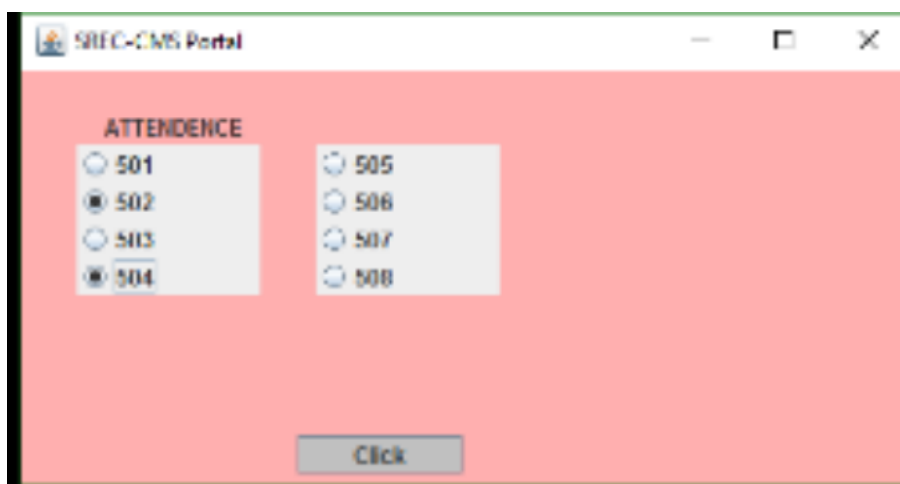
Step4: I selected OOPC subject to take attendance so as a faculty I logged in with subject credentials



A screenshot of a web application window titled "Login Details". The window has a light blue background. It contains two input fields: "Enter Student" with the text "oapc" and "Enter Password" with masked characters "+++". Below these fields is a yellow button labeled "OK".

Step5:

If I click ok it opens attendance page



A screenshot of a web application window titled "SREC-CMS Portal". The window has a light red background. It contains a section titled "ATTENDANCE" with two columns of radio buttons. The first column contains radio buttons for 501, 502, 503, and 504, with 502 and 504 selected. The second column contains radio buttons for 505, 506, 507, and 508. Below the radio buttons is a grey button labeled "Click".

If I click "click" it shows to re-check for submission



Step6:

If I click submit it goes to application page

So student can check attendance

Here 502 attended so his attendance percentage is increased by 5%



503 is absent so his/her attendance percentage doesn't changed.



Drawbacks:

- 1) If we open Application window it automatically opens Homepage window and attendance window backside of it.
- 2) For every execution of program it re-assign the values to its initially allocated values.