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Subject: Java Programming Lab

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Batch: S1

Assignment NO:06

1. Create two menu-bars, Menu-A and Menu-B. Menu-A contains 2 menu-items (Up and Down). Menu-B has 1 menu-item (Reset).

```
public class MenuClass extends Frame {
String msg = "";
MenuBar mb1;
Menu m1, m2;
MenuItem i1,i2,i3;
MenuClass m11;
public MenuClass()
setTitle("MENU PROGRAM");
setSize(800 ,400);
setVisible(true);
setLayout(null);
mb1 = new MenuBar();
setMenuBar(mb1);
m1 = new Menu("MENU-A");
m2 = new Menu("MENU-B");
mb1.add(m1);
mb1.add(m2);
i1 = new MenuItem("UP");
i2 = new MenuItem("DOWN");
i3 = new MenuItem("RESET");
m1.add(i1);
m1.add(i2);
m2.add(i3);
public static void main(String[] args) {
new MenuClass();
```

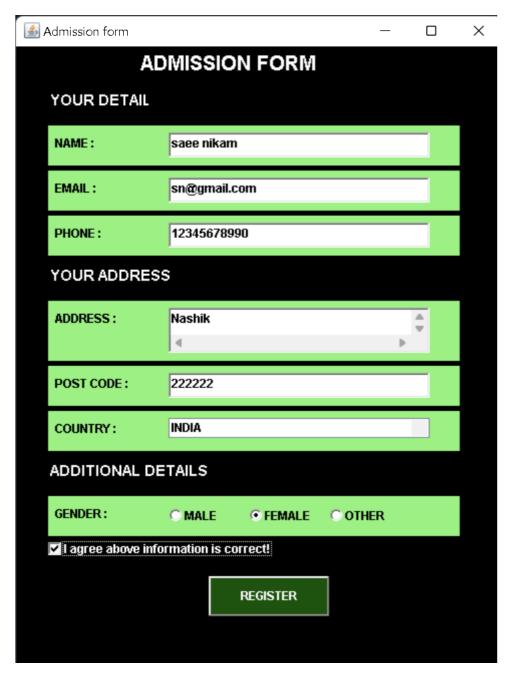
SYIT(22620004) Nikam Khushi Sahebrao OUTPUT: MENU PROGRAM X MENU-A MENU-B UP DOWN MENU PROGRAM MENU-A MENU-B RESET 3

2. Design a simple admission form using java gui.

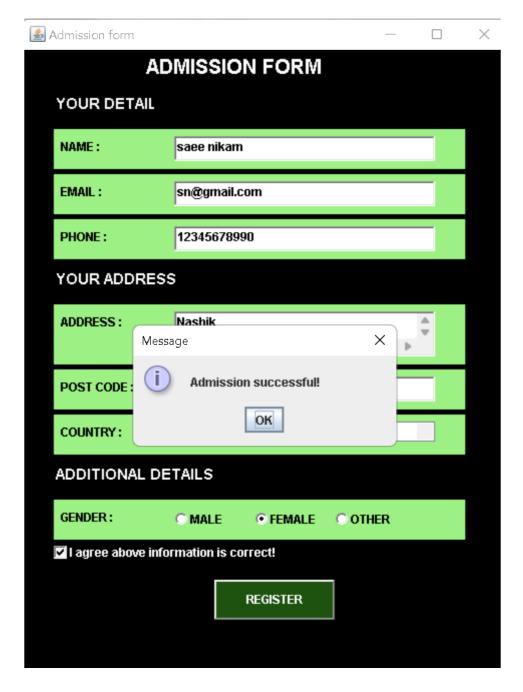
```
public class Admission extends Frame implements ActionListener {
Label 11,12,13,14,15,16,17,18,19,110,111,112,113;
TextField tf1,tf2,tf3,tf4,tf5,tf6;
TextArea t1;
Panel p1,p2,p3,p4,p5,p6,p7,p8,p9,p10;
Button b1;
CheckboxGroup cg1;
Checkbox c1,c2,c3,c4;
Font f1, f2, f3;
Color cc1,cc2;
public Admission()
setSize(500,1500);
setVisible(true);
setTitle("Admission form");
setLayout(null);
f1=new Font("MS Reference Sans Serif", Font.BOLD, 20);
f3=new Font("Verdana", Font.BOLD, 15);
f2=new Font("Times New Roman", Font.BOLD, 12);
cc1=new Color(157,240,132);
cc2=new Color(30,82,15);
setFont(f2);
setBackground(Color.BLACK);
setForeground(Color.WHITE);
11=new Label("ADMISSION FORM");
11.setBounds(130,28,290,40);
11.setFont(f1);
12=new Label("YOUR DETAILS");
12.setBounds(40,70,100,30);
12.setFont(f3);
p1=new Panel();
p1.setLayout(null);
p1.setBounds(40,110,410,40);
p1.setBackground(cc1);
p1.setForeground(Color.BLACK);
15=new Label("NAME : ");
15.setBounds(5,5,100,25);
tf1=new TextField();
tf1.setBounds(120,7,260,25);
```

```
p2=new Panel();
p2.setLayout(null);
p2.setBounds(40,155,410,40);
p2.setBackground(cc1);
p2.setForeground(Color.BLACK);
16=new Label("EMAIL : ");
16.setBounds(5,5,100,25);
tf2=new TextField();
tf2.setBounds(120,7,260,25);
p3=new Panel();
p3.setLayout(null);
p3.setBounds(40,200,410,40);
p3.setBackground(cc1);
p3.setForeground(Color.BLACK);
17=new Label("PHONE : ");
17.setBounds(5,5,100,25);
tf3=new TextField();
tf3.setBounds(120,7,260,25);
13=new Label("YOUR ADDRESS");
13.setFont(f3);
13.setBounds(40,245,150,30);
p4=new Panel();
p4.setLayout(null);
p4.setBounds(40,285,410,60);
p4.setBackground(cc1);
p4.setForeground(Color.BLACK);
18=new Label("ADDRESS : ");
18.setBounds(5,5,100,25);
t1=new TextArea();
t1.setBounds(120,7,260,45);
p5=new Panel();
p5.setLayout(null);
p5.setBounds(40,350,410,40);
p5.setBackground(cc1);
p5.setForeground(Color.BLACK);
19=new Label("POST CODE : ");
19.setBounds(5,5,100,25);
tf4=new TextField();
tf4.setBounds(120,7,260,25);
p6=new Panel();
p6.setLayout(null);
p6.setBounds(40,395,410,40);
p6.setBackground(cc1);
p6.setForeground(Color.BLACK);
110=new Label("COUNTRY : ");
110.setBounds(5,5,100,25);
l=new List();
1.setBounds(120,7,260,20);
1.add("INDIA");
1.add("JAPAN");
```

```
1.add("CHINA");
1.add("USA");
1.add("UK");
14=new Label("ADDITIONAL DETAILS ");
14.setFont(f3);
14.setBounds(40,440,240,30);
p7=new Panel();
p7.setLayout(null);
p7.setBounds(40,480,410,40);
p7.setBackground(cc1);
p7.setForeground(Color.BLACK);
111=new Label("GENDER :");
111.setBounds(5,5,100,25);
cg1 = new CheckboxGroup();
c1=new Checkbox("MALE",cg1,true);
c1.setBounds(120,7,80,25);
c2=new Checkbox("FEMALE",cg1,true);
c2.setBounds(200,7,80,25);
c3=new Checkbox("OTHER",cg1,true);
c3.setBounds(280,7,90,25);
c4=new Checkbox("I agree above information is correct!");
c4.setBounds(40,525,300,15);
b1=new Button("REGISTER");
b1.setBounds(200,560,120,40);
b1.setForeground(Color.WHITE);
b1.setBackground(cc2);
add(11);add(12);
add(p1); p1.add(15);p1.add(tf1);add(p2);
p2.add(16);
p2.add(tf2);
add(p3);
p3.add(17);
p3.add(tf3);
add(13);
add(p4);
p4.add(18);
p4.add(t1);
add(p5);
p5.add(19);
p5.add(tf4);
add(p6);
p6.add(110);
p6.add(1);
p6.add(1);
add(14);
add(p7);
p7.add(l11);
p7.add(c1);
p7.add(c2);
p7.add(c3);
```



Output:

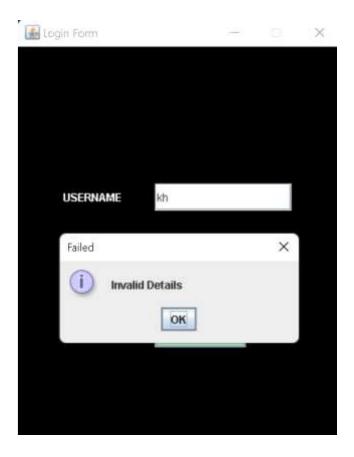


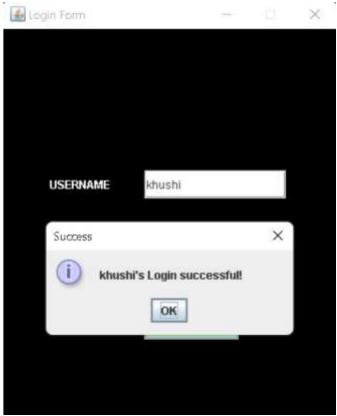
3. Write a JAVA program to create login application(GUI). If login is successful then display user information else display message as "wrong username or password".

```
import javax.swing.*;
class <u>LoginFrame</u> extends <u>JFrame</u> implements <u>ActionListener</u> {
   Container container=getContentPane();
   JLabel userLabel=new JLabel("USERNAME");
   JLabel passwordLabel=new JLabel("PASSWORD");
   JTextField userTextField=new JTextField();
   JPasswordField passwordField();
   JButton loginButton=new JButton("LOGIN");
   LoginFrame()
       setLayoutManager();
       setLocationAndSize();
       addComponentsToContainer();
  public void setLayoutManager()
      container.setLayout(null);
  public void setLocationAndSize()
      Color cc1=new Color(157,240,132);
      userLabel.setBounds(50,150,100,30);
      userLabel.setForeground(Color.WHITE);
      passwordLabel.setBounds(50,220,100,30);
       passwordLabel.setForeground(Color.WHITE);
      userTextField.setBounds(150,150,150,30);
      passwordField.setBounds(150,220,150,30);
      loginButton.setBounds(150,300,100,30);
        loginButton.setBackground(cc1);
       getContentPane().setBackground(Color.BLACK);
     loginButton.addActionListener(this);
```

```
public void addComponentsToContainer()
      container.add(userLabel);
      container.add(passwordLabel);
      container.add(userTextField);
      container.add(passwordField);
      container.add(loginButton);
   public void actionPerformed(ActionEvent e) {
       String username = userTextField.getText();
       String password = new String(passwordField.getPassword());
if(username.equals("khushi")&&password.equals("123")){
       JOptionPane.showMessageDialog(this,username +"'s Login successful!",
'Success", JOptionPane.INFORMATION_MESSAGE);
       JOptionPane.showMessageDialog(this, "Invalid Details", "Failed",
JOptionPane.INFORMATION MESSAGE);
public class LoginForm {
   public static void main(String[] a){
       LoginFrame frame=new LoginFrame();
       frame.setTitle("Login Form");
       frame.setVisible(true);
       frame.setBounds(10,10,370,600);
       frame.setDefaultCloseOperation(JFrame.EXIT ON CLOSE);
       frame.setResizable(false);
```

Output:





4. Design a java application with various layout managers.

```
public class LayoutDemo extends JFrame {
   public LayoutDemo() {
       setTitle("Java Layout Demo");
       setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
       setSize(400, 400);
       JLabel nameLabel = new JLabel("Name:");
       JTextField nameField = new JTextField(20);
       JLabel addressLabel = new JLabel("Address:");
       JTextArea addressArea = new JTextArea(5, 20);
       JScrollPane addressScrollPane = new JScrollPane(addressArea);
       JButton submitButton = new JButton("Submit");
       JPanel mainPanel = new JPanel(new BorderLayout());
       JPanel inputPanel = new JPanel(new GridLayout(2, 2));
       JPanel buttonPanel = new JPanel(new FlowLayout());
       inputPanel.add(nameLabel);
       inputPanel.add(nameField);
       inputPanel.add(addressLabel);
       inputPanel.add(addressScrollPane);
       buttonPanel.add(submitButton);
       mainPanel.add(inputPanel, BorderLayout.CENTER);
       mainPanel.add(buttonPanel, BorderLayout.SOUTH);
       mainPanel.setBackground(Color.BLUE);
       inputPanel.setBackground(Color.CYAN);
       buttonPanel.setBackground(Color.YELLOW);
```

```
nameLabel.setForeground(Color.WHITE);
    addressLabel.setForeground(Color.WHITE);

// Add mainPanel to JFrame
    add(mainPanel);

// Display the JFrame
    setVisible(true);
}

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

Output:

