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**ASSIGNMENT :- 6**

**SUBJECT :- JAVA ASSIGNMENT**

**BATCH:- S-5**

Question 1:-

Code :-

```
import javax.swing.*;
```

```
import java.awt.*;
```

```
import java.awt.event.*;
```

```
public class one {
```

```
    public static void main(String[] args) {
```

```
        // Create a JFrame and set its size and title
```

```
        JFrame frame = new JFrame();
```

```
        frame.setSize(400, 300);
```

```
        frame.setTitle("Menu Example");
```

```
        JMenuBar menuBar = new JMenuBar();
```

```
        frame.setJMenuBar(menuBar);
```

```
        JMenu menuA = new JMenu("Menu-A");
```

```
        menuBar.add(menuA);
```

```
JMenuItem upItem = new JMenuItem("Up");
JMenuItem downItem = new
JMenuItem("Down");
menuA.add(upItem);
menuA.add(downItem);

upItem.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
        System.out.println("Up clicked");
    }
});

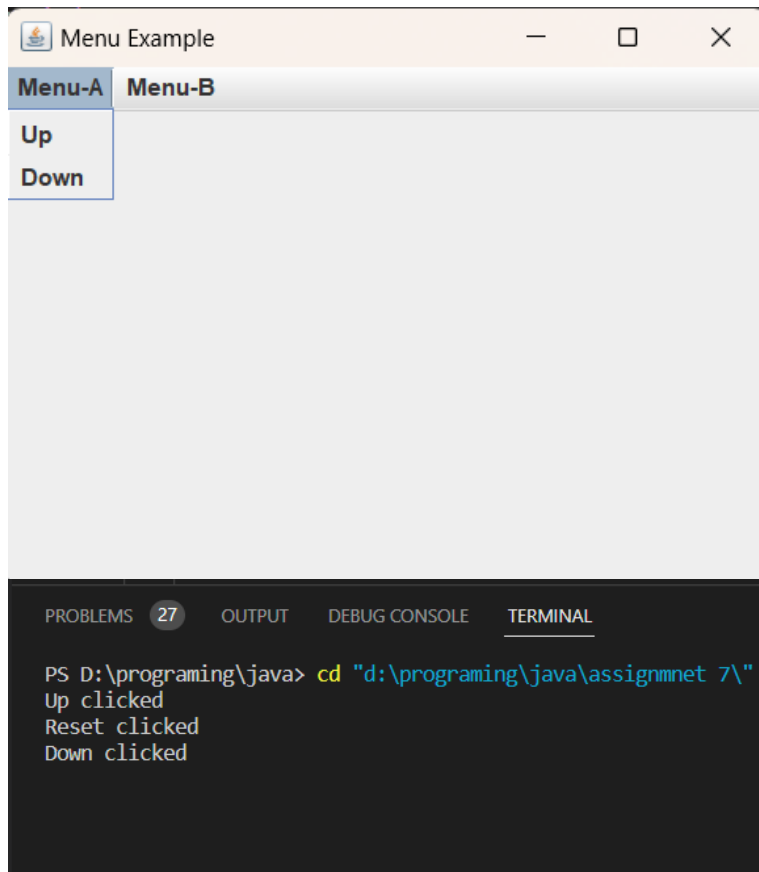
downItem.addActionListener(new
ActionListener() {
    public void actionPerformed(ActionEvent e) {
        System.out.println("Down clicked");
    }
});

JMenu menuB = new JMenu("Menu-B");
menuBar.add(menuB);
```

```
JMenuItem resetItem = new JMenuItem("Reset");
menuB.add(resetItem);

resetItem.addActionListener(new ActionListener()
{
    public void actionPerformed(ActionEvent e) {
        System.out.println("Reset clicked");
    }
});

frame.setVisible(true);
}
```



Question 2:-

Design a simple admission form using java gui.

CODE :-

```
import java.awt.*;  
import java.awt.event.ActionEvent;  
import java.awt.event.ActionListener;
```

```
import javax.swing.*;  
class two{
```

```
two(){  
    JFrame main_window=new JFrame("Addmission  
Form", null);  
  
    JTextField name_Input = new JTextField();  
    JTextField ageInput=new JTextField();  
    JTextField dateInput=new JTextField();  
  
    String branches[]={ "Computer  
Science", "IT", "Electronics", "Electrical", "Civil"};  
    JComboBox BranchInput=new  
JComboBox(branches);  
  
    JRadioButton male=new JRadioButton("Male");  
    JRadioButton female=new  
JRadioButton("Female");  
  
    ButtonGroup gen=new ButtonGroup();  
    gen.add(male);  
    gen.add(female);
```

```
JButton submit = new JButton("Submit");
```

```
JLabel name_Label=new JLabel("Name :");
```

```
JLabel Title=new JLabel("ADDMISSON  
FORM");
```

```
JLabel ageLabel=new JLabel("Age");
```

```
JLabel dateLabel=new JLabel("Date Of Birth : ");
```

```
JLabel BranchLabel=new JLabel("Select Branch  
:");
```

```
JLabel GenderLabel = new JLabel("Select  
Gender");
```

```
name_Label.setBounds(30,100,200,20);
```

```
Title.setBounds(300, 20, 700,50);
```

```
Title.setFont(new Font("Arial", Font.PLAIN, 30));
```

```
ageLabel.setBounds(30, 200, 200, 20);
```

```
dateLabel.setBounds(30, 300, 200, 20);
```

```
BranchLabel.setBounds(30, 400, 200, 20);
```

```
GenderLabel.setBounds(30,550,200,20);
```

```
name_Input.setBounds(100, 100, 200, 20);
```

```
ageInput.setBounds(100, 200, 200, 20);
```

```
dateInput.setBounds(150, 300, 200, 20);  
BranchInput.setBounds(150 , 400, 200, 20);
```

```
male.setBounds(200, 550, 100, 20);  
male.addActionListener(e->{
```

```
});
```

```
female.setBounds(300, 550, 100, 20);  
female.addActionListener(e->{
```

```
});
```

```
submit.addActionListener(new ActionListener() {  
    public void actionPerformed(ActionEvent e){  
        System.out.println("Form Submitted  
Successfully !");  
        System.out.println("Name :  
"+name_Input.getText());  
        System.out.println("Age :  
"+ageInput.getText());  
        System.out.println("Date of Birth :  
"+dateInput.getText());
```



```
        System.out.println("Branch :  
"+BranchInput.getSelectedItem());  
    }  
});  
submit.setBounds(300, 600, 100, 50);
```

```
main_window.add(Title);  
main_window.add(name_Label);  
main_window.add(ageLabel);  
main_window.add(BranchLabel);  
main_window.add(dateLabel);  
main_window.add(name_Input);  
main_window.add(ageInput);  
main_window.add(dateInput);  
main_window.add(BranchInput);  
main_window.add(male);  
main_window.add(female);  
main_window.add(submit);  
main_window.add(GenderLabel);  
  
main_window.setSize(1000, 800);
```

```
main_window.setLayout(null);  
main_window.setVisible(true);  
  
}  
public static void main(String[] args) {  
    two obj = new two();  
}  
}
```

Admission Form

## ADDMISSON FORM

Name :

Age

Date Of Birth :

Select Branch :

Select Gender ☒ Male ☐ Female

```
PS D:\programing\java> cd "d:\programing\java\assignmnet 7\" ; if ($?) { javac two.java } ; if ($?) { java two }
Note: two.java uses unchecked or unsafe operations.
Note: Recompile with -Xlint:unchecked for details.
Form Submitted Successfully !
Name : Kaustubh
Age : 18
Date of Birth : 1/1/2003
Branch : IT
```

Question 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.*;
```

```
import java.awt.*;
```

```
import java.awt.event.ActionListener;
```

```
import java.awt.event.ActionEvent;
```

```
class three {
```

```
    static String users[]={"Kaustubh","abc","def","xyz"};
```

```
    static String password[]={"123","456","789","101"};
```

```
    public static void main(String[] args) {
```

```
        JFrame Main_window=new JFrame();
```

```
    JTextField nameinput=new JTextField();  
    JLabel nameLabel=new JLabel("Enter user  
name:");
```

```
    nameinput.setFont(new Font("Arial", 0, 20));  
    nameinput.setBounds(50, 50, 500, 30);  
    nameLabel.setFont(new Font("Arial", 0, 20));  
    nameLabel.setBounds(50, 20, 500, 30);
```

```
    JTextField passinput=new JTextField();  
    JLabel passLabel=new JLabel("Enter Password:");  
    passinput.setFont(new Font("Arial", 0, 20));  
    passinput.setBounds(50, 130, 500, 30);  
    passLabel.setFont(new Font("Arial", 0, 20));  
    passLabel.setBounds(50, 100, 500, 30);
```

```
    JTextArea msg=new JTextArea("Login Successful  
!");  
    msg.setBounds(70, 220, 500, 30);  
    msg.setFont(new Font("Arial", 0, 30));
```

```
JButton submit=new JButton("Submit");
submit.setBounds(70, 180, 100, 40);

submit.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e){
        for(int i=0;i<4;i++){
            if(users[i].equals(nameinput.getText())){
if(password[i].equals(passinput.getText())){
                System.out.println("Login successful
!");
                Main_window.add(msg);
            }
        }
    }
});
```

```
Main_window.add(submit);
```

```
Main_window.add(passLabel);
```

```
Main_window.add(passinput);
```

```
Main_window.add(nameLabel);
```

```
Main_window.add(nameinput);
```

```
Main_window.setFont(new Font("Arial", 0, 50));
```

```
Main_window.setFont(new Font("Arial", 0, 50));
```

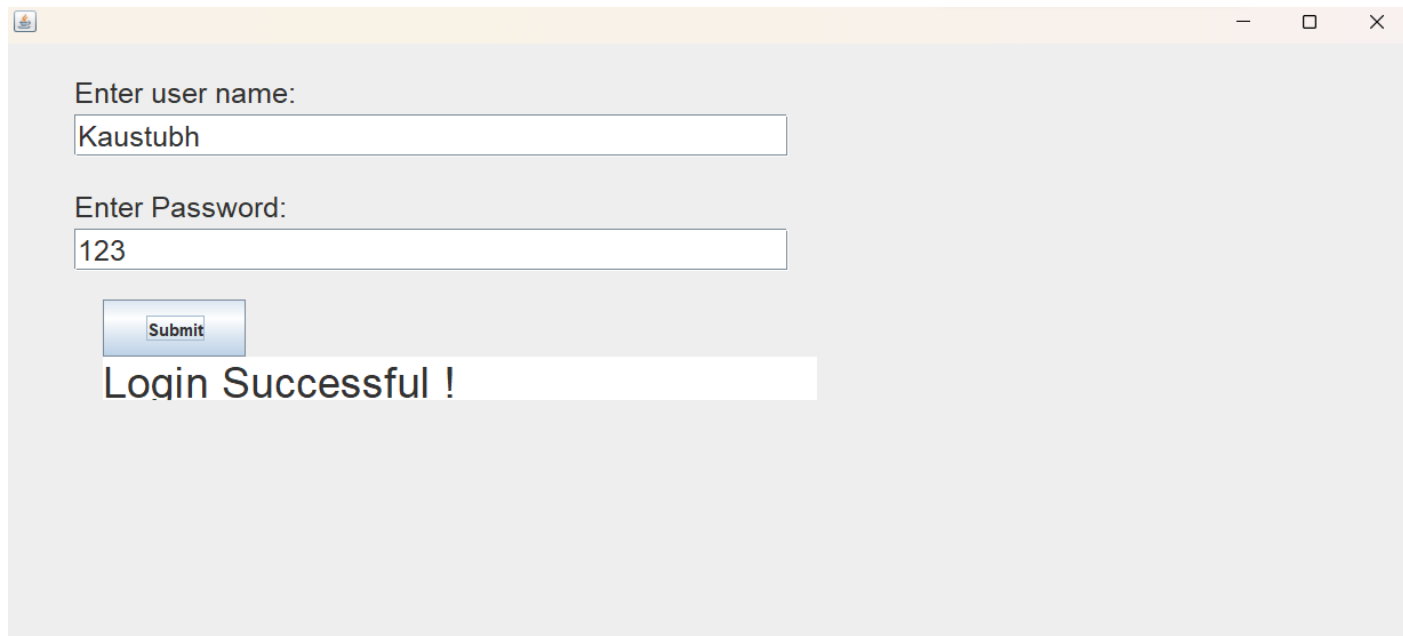
```
Main_window.setLayout(null);
```

```
Main_window.setVisible(true);
```

```
Main_window.setSize(1000, 800);
```

```
}
```

```
}
```



```
PROBLEMS 22 OUTPUT DEBUG CONSOLE TERMINAL
PS D:\programing\java> cd "d:\programing\java\assignmnet 7\" ; if ($?) { javac three.java }
Login successful !
```

Question 4:- Design a java application with various layout managers.

```
import javax.swing.*;
import java.awt.*;
class four {
    public static void main(String[] args) {

        //Flow layout

        JFrame frame = new JFrame();
```

```
frame.setSize(400, 300);  
frame.setTitle("FlowLayout Example");  
JPanel panel = new JPanel();  
panel.setLayout(new FlowLayout());  
JLabel label1 = new JLabel("Label 1");  
JLabel label2 = new JLabel("Label 2");  
JLabel label3 = new JLabel("Label 3");  
panel.add(label1);  
panel.add(label2);  
panel.add(label3);  
frame.add(panel);  
frame.setVisible(true);
```

//Border layout :-

```
JFrame Borderwindow = new JFrame();  
Borderwindow.setSize(400, 300);  
Borderwindow.setTitle("BorderLayout Example");  
JPanel panel2 = new JPanel();  
panel2.setLayout(new BorderLayout());  
JButton button1 = new JButton("North");
```



```
JButton button2 = new JButton("South");
JButton button3 = new JButton("East");
JButton button4 = new JButton("West");
JButton button5 = new JButton("Center");
panel2.add(button1, BorderLayout.NORTH);
panel2.add(button2, BorderLayout.SOUTH);
panel2.add(button3, BorderLayout.EAST);
panel2.add(button4, BorderLayout.WEST);
panel2.add(button5, BorderLayout.CENTER);
Borderwindow.add(panel2);
Borderwindow.setVisible(true);
```

//Grid Layout :-

```
JFrame gridFrame = new JFrame();
gridFrame.setSize(400, 300);
gridFrame.setTitle("Grid Example");
JPanel gridPanel = new JPanel();
```

// Use a GridLayout with 2 rows and 3 columns for  
the panel

```
gridPanel.setLayout(new GridLayout(2, 3));
```

```
JButton Gbtn1 = new JButton("Button 1");
JButton Gbtn2 = new JButton("Button 2");
JButton Gbtn3 = new JButton("Button 3");
JButton Gbtn4 = new JButton("Button 4");
JButton Gbtn5 = new JButton("Button 5");
JButton Gbtn6 = new JButton("Button 6");
gridPanel.add(Gbtn1);
gridPanel.add(Gbtn2);
gridPanel.add(Gbtn3);
gridPanel.add(Gbtn4);
gridPanel.add(Gbtn5);
gridPanel.add(Gbtn6);

gridFrame.add(gridPanel);
gridFrame.setVisible(true);
```

//Box Layout :-

```
JFrame Bframe = new JFrame();
Bframe.setSize(400, 300);
```

```
Bframe.setTitle("BoxLayout Example");  
JPanel Bpanel = new JPanel();  
  
Bpanel.setLayout(new BoxLayout(Bpanel,  
BoxLayout.Y_AXIS));  
  
JButton Bbtn1 = new JButton("Button 1");  
JButton Bbtn2 = new JButton("Button 2");  
JButton Bbtn3 = new JButton("Button 3");  
Bpanel.add(Bbtn1);  
Bpanel.add(Box.createRigidArea(new  
Dimension(0, 10))); // Add some space between  
components  
Bpanel.add(Bbtn2);  
Bpanel.add(Box.createRigidArea(new  
Dimension(0, 10))); // Add some space between  
components  
Bpanel.add(Bbtn3);  
Bframe.add(Bpanel);  
Bframe.setVisible(true);  
}  
}
```

