

EXPERIMENT :

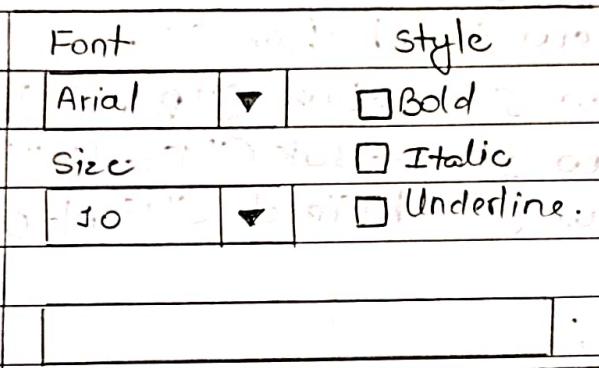
No.

## Assignment - 3



## \* Set A .

3. Write a program to create the following GUI and apply the changes to the text in the JTextField.



→ Ass3setA1.java

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

~~class Ass3 setA1 extends JFrame implements ItemListener~~

~~{~~

JLabel l1, l2, l3;

JComboBox cmb1, cmb2;

JCheckBox cb1, cb2;

JTextField t;

Font f;

Ass3 setA1()

{

super("Ass3setA1");

Teacher's Sign.: \_\_\_\_\_

```
setSize(500, 250);  
setLocation(200, 150);  
setLayout(null);
```

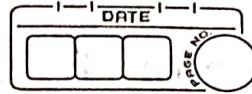
```
l1 = new JLabel("Font");  
l2 = new JLabel("Size");  
l3 = new JLabel("Style");  
cmb1 = new JComboBox();  
cmb2 = new JComboBox();  
cb1 = new JCheckBox("Bold");  
cb2 = new JCheckBox("Italic");  
t1 = new JTextField("Font Operation");
```

```
add(l1);  
add(l2);  
add(l3);  
add(cmb1);  
add(cmb2);  
add(t1);  
add(cb1);  
add(cb2);
```

✓ l1.setBounds(50, 20, 300, 20);  
cmb1.setBounds(50, 45, 150, 20);  
l2.setBounds(50, 80, 100, 20);  
cmb2.setBounds(50, 105, 150, 20);  
t1.setBounds(50, 140, 300, 50);

l3.setBounds(250, 20, 100, 20);  
cb1.setBounds(250, 50, 80, 20);  
cb2.setBounds(250, 60, 80, 20);

cmb1.addItem("Arial");  
cmb1.addItem("Times New Roman");  
cmb1.addItem("Bookman Old Style");  
cmb1.addItem("Courier New");



`cmb1.addItem("Georgia");`

`cmb2.addItem("10");`

`cmb2.addItem("15");`

`cmb2.addItem("20");`

`cmb2.addItem("36");`

`f = new Font("Arial", font.PLAIN, 30);`  
`t1.setFont(f);`

`cmb1.addItemListener(this);`

`cmb2.addItemListener(this);`

`cb1.addItemListener(this);`

`cb2.addItemListener(this);`

`setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);`  
`setVisible(true);`

`}  
 public void itemStateChanged (ItemEvent e)`

`String fn = cmb1.getSelectedItem().toString();`  
`int fs = Integer.parseInt(cmb2.getSelectedItem().  
 toString());`

`if (cb1.isSelected() && cb2.isSelected())`

`f = new Font(fn, font.ITALIC + font.BOLD, fs);`

`else if (cb1.isSelected())`

`f = new Font(fn, font.BOLD, fs);`

```

else if C cb2. isSelected ())
    f = new Font (fn, Font.ITALIC, fs);
else
    f = new Font (fn, Font.PLAIN, fs);

t1. setFont (f);
}

public static void main (String args [])
{
    new Ass3SetA1 ();
}

```

- 2] Create the following GUI screen using appropriate layout managers. Accept the name, class, hobbies of the user and display the selected options in a textbox.

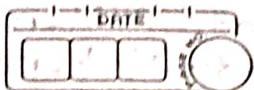
Your Name	<input type="text"/>
Your class	<input type="text"/>
O FY	<input type="checkbox"/> Music
O SY	<input type="checkbox"/> Dance
O TY	<input type="checkbox"/> Sports
Name: _____, class: _____, Hobbies: _____	

→ Ass3SetA2.java

```

import javax.swing.*;
import java.awt.*;
import java.awt.event.*;
class Ass3SetA2 extends JFrame implements ActionListener,

```



## ItemListener

{

```
JLabel lbl-name, l1, l2;
JCheckBox cb1, cb2, cb3;
JTextField jtf, txt-name;
JRadioButton b1, b2, b3;
ButtonGroup bg;
String a, msg;
```

## Ass3setA2()

}

```
super("Ass3setA2");
setSize(500, 250);
 setLocation(200, 150);
setLayout(null);
```

```
l1 = new JLabel ("Your class");
l2 = new JLabel ("Your Hobbies");
lbl-name = new JLabel ("Enter Your Name");
txt-name = new JTextField ();
cb1 = new JCheckBox ("Music");
cb2 = new JCheckBox ("Dance");
cb3 = new JCheckBox ("Sports");
b1 = new JRadioButton ("F4");
b2 = new JRadioButton ("S4");
b3 = new JRadioButton ("T4");
```

```
add(lbl_name);
add(txt_name);
add(cb1);
add(cb2);
add(cb3);
add(cb1);
add(cb2);
add(cb3);
add(l1);
add(l2);

bg = new ButtonGroup();
bg.add(cb1);
bg.add(cb2);
bg.add(cb3);

jtf = new JTextField(15);
add(jtf);

lbl_name.setBounds(50, 20, 100, 20);
txt_name.setBounds(155, 20, 100, 20);
l1.setBounds(50, 50, 100, 20);
l2.setBounds(150, 50, 100, 20);
b1.setBounds(50, 70, 50, 20);
b2.setBounds(60, 100, 50, 20);
b3.setBounds(60, 130, 50, 20);
cb1.setBounds(150, 70, 100, 20);
cb2.setBounds(150, 100, 100, 20);
cb3.setBounds(150, 130, 100, 20);
jtf.setBounds(50, 165, 400, 30);
jtf.setFont(new Font("Arial", Font.BOLD, 12));

cb1.addItemListener(this);
cb2.addItemListener(this);
cb3.addItemListener(this);
b1.addActionListener(this);
b2.addActionListener(this);
b3.addActionListener(this);
```

EXPERIMENT :

No.

DATE	Page No.

setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);  
setVisible(true);  
}

public void actionPerformed(ActionEvent e) {  
String a = "Name = " + txt\_name.getText() + ", Class = " + e.  
getActionCommand();  
jtf.setText(a);  
cb1.setSelected(false);  
cb2.setSelected(false);  
cb3.setSelected(false);  
}

public void itemStateChanged(ItemEvent e)  
{

if (cb1.isSelected() || cb2.isSelected() ||  
cb3.isSelected())

{

msg = a + " and hobbies = ";

if (cb1.isSelected())

msg = msg + " " + cb1.getText(),

if (cb2.isSelected())

msg = msg + " " + cb2.getText(),

if (cb3.isSelected())

msg = msg + " " + cb3.getText(),

jtf.setText(a + msg);

}

else

jtf.setText(a),

Teacher's Sign.: \_\_\_\_\_

```
3] public static void main (String args[])
{
    new Ass3 setA2();
}
```

3] Create an Applet which displays a message in the center of the screen . The message indicates the events taking place on the applet window. Handle event like mouse click , mouse moved , mouse dragged , mouse pressed and key pressed . The message should update each time an event occurs . The message should give details of the event such as which mouse button was pressed , which key is pressed etc.

→ Ass3setA3.java

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

```
class Ass3setA3 extends JFrame implements MouseListener,
```

```
MouseMotionListener , KeyListener
```

```
{
```

```
    JPanel pnt;
```

```
    JTextField txt1, txt2;
```

```
    String msg = "", b1 = " ";
```

```
    Ass3setA3 c;
```

```
}
```

```
setSize (600,600);
```

```
setTitle ("Ass3setA3");
```



```

setLocation (300,300);
setLayout (new BorderLayout ());
pnl = new JPanel ();
txt1 = new JTextField ();
txt2 = new JTextField ();
add (txt1, BorderLayout .NORTH);
add (txt2, BorderLayout .SOUTH);
add (pnl, BorderLayout .CENTER);
txt1 .setFont (new Font ("Arial", Font .BOLD, 16));
txt2 .setFont (new Font ("Arial", Font .BOLD, 16));
txt1 .setEditable (false);
txt2 .setEditable (false);
pnl .setBackground (Color .YELLOW);
pnl .setFocusable (true);
pnl .addMouseListener (this);
pnl .addMouseMotionListener (this);
pnl .addKeyListener (this);
setVisible (true);
setDefaultCloseOperation (JFrame .EXIT_ON_CLOSE);
}

public void mouseClicked (MouseEvent e)
{
    if (e.getButton () == 1)
        msg = "Left Button Clicked ";
    else if (e.getButton () == 2)
        msg = "Middle Button Clicked ";
    else if (e.getButton () == 3)
        msg = "Right Button Clicked ";
}

```

```
txt1.setText(msg);
```

```
} public void mousePressed(MouseEvent e)
```

```
txts.setText("Mouse Pressed at "+e.getX()+" ,  
+e.getY());
```

```
} public void mouseReleased(MouseEvent e)
```

```
txts.setText("Mouse Released at "+e.getX()+" ,  
+e.getY());
```

```
} public void mouseEntered(MouseEvent e)
```

```
txts.setText(" *** Mouse Entered *** );
```

```
} public void mouseExited(MouseEvent e)
```

```
txts.setText(" *** Mouse Exited *** );
```

```
} public void mouseMoved(MouseEvent e)
```

✓ 

```
msg = "Moved at x = " + e.getX() + " y = " + e.getY();  
txt2.setText(msg);
```

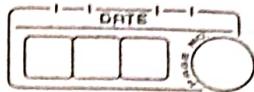
```
} public void mouseDragged(MouseEvent e)
```

✓ 

```
msg = "Dragged at x = " + e.getX() + " y = " + e.getY();  
txt2.setText(msg);
```

EXPERIMENT :

No.



public void keyTyped(KeyEvent e)

{  
msg = msg + e.getKeyChar();  
txt2.setText(msg);  
}

public void keyPressed(KeyEvent e)

{  
txt3.setText(" \* \* \* key Pressed \* \* \* ");  
}

public void keyReleased(KeyEvent e)

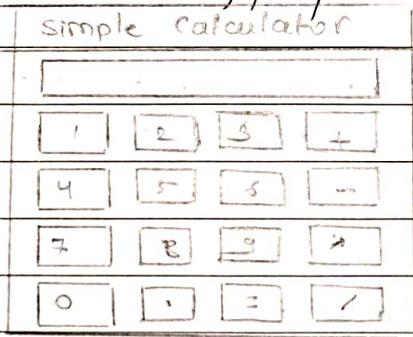
{  
txt3.setText(" \* \* \* key Released \* \* \* ");  
}

public static void main (String args [] )

{  
new Arithmethic ();  
}

\* Set B.

3. Write a java program to implement a simple arithmetic calculator. Perform appropriate validations.



Teacher's Sign.: \_\_\_\_\_

## → AssassetB1.java.

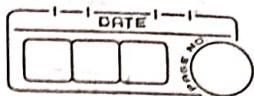
```
import java.awt.*;
import java.awt.event.*;
import javax.swing.*;

class AssassetB1 extends JFrame implements ActionListener
{
    JTextField t1;
    JPanel pnl;
    JButton b[10];
    int i;
    Font f;
    double x,y,z;
    int flg=0;

    AssassetB1()
    {
        super("calculator");
        setSize(400,450);
        setLocation(200,300);
        setLayout(null);
        f = new Font("Arial",Font.BOLD,20);
        t1 = new JTextField();
        pnl = new JPanel();
        add(t1);
        t1.setFont(f);
        add(pnl);
        pnl.setLayout(new GridLayout(4,3,30,30));
        pnl.setBackground(Color.YELLOW);
        t1.setBounds(50,40,270,30);
        pnl.setBounds(50,80,200,200);
        b = new JButton[10];
        for(i=0;i<10;i++)
    }
```

EXPERIMENT :

No.



```
b[i] = new JButton (" "+i),  
phl.add(b[i]),  
}
```

```
b[0] = new JButton ("0"),
```

```
b[10] = new JButton (".");
```

```
b[11] = new JButton ("=");
```

```
b[12] = new JButton ("+");
```

```
b[13] = new JButton ("-");
```

```
b[14] = new JButton ("*");
```

```
b[15] = new JButton ("/");
```

```
b[16] = new JButton ("Clear");
```

```
b[17] = new JButton ("Exit");
```

```
phl.add(b[0]),
```

```
phl.add(b[10]),
```

```
phl.add(b[11]),
```

~~```
add(b[12]),
```~~~~```
add(b[13]),
```~~~~```
add(b[14]),
```~~~~```
add(b[15]),
```~~~~```
add(b[16]),
```~~~~```
add(b[17]),
```~~

```
b[12].setBounds (260, 80, 60, 42),
```

```
b[13].setBounds (260, 132, 60, 42),
```

```
b[14].setBounds (260, 184, 60, 42),
```

```
b[15].setBounds (260, 236, 60, 42),
```

```
b[16].setBounds (50, 290, 130, 42),
```

```
b[17].setBounds (190, 290, 130, 42);
```

Teacher's Sign.: \_\_\_\_\_

```
for (i=0; i<18, itt)
{
    b[i].setFont(cf);
    b[i].addActionListener(this);
}
setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
setVisible(true);
}

public void actionPerformed(ActionEvent e)
{
    if (e.getSource() == b[1] || e.getSource() == b[2] ||
        e.getSource() == b[3] || e.getSource() == b[4] ||
        e.getSource() == b[5] || e.getSource() == b[6] ||
        e.getSource() == b[7] || e.getSource() == b[8] ||
        e.getSource() == b[9])
    {
        if (t1.getText().length() == 0)
            t1.setText(e.getActionCommand());
        else
            t1.setText(t1.getText() + e.getActionCommand());
    }
    if (e.getSource() == b[0])
        if (t1.getText().length() == 0)
            t1.setText(e.getActionCommand());
        else
            if (!t1.getText().equals("0"))
                t1.setText(t1.getText() + e.getActionCommand());
    if (e.getSource() == b[10])
        if (t1.getText().length() != 0)
            if (t1.getText().indexOf('.') == -1)
                t1.setText(t1.getText() + e.getActionCommand());
```



```

if (e.getSource() == b[12])
{
    x = Double.parseDouble(t1.getText());
    flg=1; t1.setText("");
}

if (e.getSource() == b[13])
{
    x = Double.parseDouble(t1.getText());
    flg=2; t1.setText("");
}

if (e.getSource() == b[14])
{
    x = Double.parseDouble(t1.getText());
    flg=3; t1.setText("");
}

if (e.getSource() == b[15])
{
    x = Double.parseDouble(t1.getText());
    flg=4; t1.setText("");
}

if (e.getSource() == b[16])
{
    y = Double.parseDouble(t1.getText());
    if (flg==1) z = x+y;
    else if (flg==2) z = x-y;
    else if (flg==3) z = x*y;
    else if (flg==4) z = x/y;
    t1.setText(" "+z);
}

```

```

if (e.getSource() == b[16])
    t1.setText(" ");
if (e.getSource() == b[17])
    System.exit(0);
}
public static void main (String args[])
{
    new Ass3SetB1();
}
}

```

2] Write a menu driven program to perform the following operations on a set of integers. The Load operation should generate 50 random integers (2 digits) and display the numbers on the screen. The save operation should save the numbers to a file "numbers.txt". The compute menu provides various operations and the result is displayed in a message box. The search operation accepts a number from the user in an input dialog and displays the search result in a message dialog. The sort operation sorts the numbers and displays the sorted data on the screen.

### → Ass3SetB2.java

```

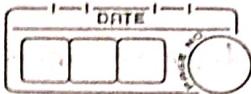
import java.awt.*;
import java.awt.event.*;
import javax.swing.*;
import java.util.*;
import java.io.*;

class Ass3SetB2 extends JFrame implements ActionListener
{
    JMenuBar mbr;
    JMenu m_file, m_compute, m_operations, m_sort;
    JMenuItem load, save, exit, sum, avg, max, min, med, sort;
    JRadioButtonMenuItem ascending, descending;
    ButtonGroup bg;
    TextArea t;
}

```

EXPERIMENT:

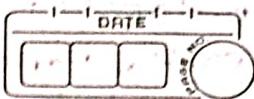
No.



```
int randomInt, num[];  
Ass3SetB2() {  
    super("MenuBar");  
    setSize(500, 500);  
    setLocation(200, 200);  
    setLayout(null);  
    mbr = new JMenuBar();  
    m_file = new JMenu("File");  
    m_compute = new JMenu("Compute");  
    m_operations = new JMenu("Operations");  
    load = new JMenuItem("Load");  
    save = new JMenuItem("Save");  
    ext = new JMenuItem("Exit");  
    sum = new JMenuItem("Sum");  
    max = new JMenuItem("Maximum");  
    min = new JMenuItem("Minimum");  
    avg = new JMenuItem("Average");  
    med = new JMenuItem("Median");  
    srch = new JMenuItem("Search");  
    sort = new JMenu("Sort");  
    ascending = new JRadioButtonMenuItem("Ascending");  
    descending = new JRadioButtonMenuItem("Descending");  
    bg = new ButtonGroup();  
    bg.add(ascending); bg.add(descending);  
    t = new TextArea("50 Random Numbers = \n");
```

Teacher's Sign.: \_\_\_\_\_

```
t.setFont(new Font("Arial", Font.BOLD, 20));  
num = new int [50];  
m_file.add (load);  
m_file.add (save);  
m_file.add (exit);  
  
m_compute.add (sum);  
m_compute.add (avg);  
m_compute.add (max);  
m_compute.add (min);  
m_compute.add (med);  
  
sort.add (ascending);  
sort.add (descending);  
  
m_operations.add (srch);  
m_operations.add (sopt);  
  
mbr.add (m_file);  
mbr.add (m_compute);  
mbr.add (m_operations);  
add (mbr);  
add (t);  
mbr.setBounds (0, 0, 500, 20);  
t.setBounds (0, 25, 480, 420);  
  
load.addActionListener (this);  
save.addActionListener (this);  
exit.addActionListener (this);  
sum.addActionListener (this);  
avg.addActionListener (this);  
max.addActionListener (this);  
min.addActionListener (this);  
med.addActionListener (this);  
srch.addActionListener (this);  
ascending.addActionListener (this);  
descending.addActionListener (this);  
setDefaultCloseOperation (JFrame.EXIT_ON_CLOSE);  
setVisible (true);
```



```

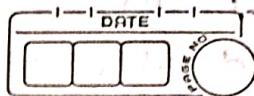
public void actionPerformed(ActionEvent e)
{
    if (e.getSource() == load)
    {
        t.setText("50 Random Numbers = \n");
        Random rg = new Random();
        for (int idx = 0; idx < 50; idx++)
        {
            randomInt = rg.nextInt(500);
            if (randomInt > 9)
            {
                t.setText(t.getText() + randomInt + " ");
                num[idx] = randomInt;
                if ((idx + 1) % 10 == 0)
                    t.setText(t.getText() + "\n");
            }
            else
                idx--;
        }
    }
    if (e.getSource() == save)
    {
        FileOutputStream out = new FileOutputStream
        ("numbers.txt");
        PrintStream p = new PrintStream(out);
        p.println(t.getText());
    }
}

```

```
p.close();
JOptionPane.showMessageDialog(null, "File numbers.txt  
created successfully !!!");
}
catch (FileNotFoundException ex)
{
    JOptionPane.showMessageDialog(null, ex.toString());
}
}
if (e.getSource() == exit)
    System.exit(0);
if (e.getSource() == sum)
{
    int sum = 0;
    for (int i = 0; i < 50; i++)
        sum = sum + num[i];
    JOptionPane.showMessageDialog(null, "sum = " + sum);
}
if (e.getSource() == avg)
{
    int sum = 0, avg = 0;
    for (int i = 0; i < 50; i++)
        sum = sum + num[i];
    avg = sum / 50;
    JOptionPane.showMessageDialog(null, "Average = " + avg);
}
if (e.getSource() == max)
{
    int max = num[0];
    for (int i = 0; i < 50; i++)
        if (max < num[i])
            max = num[i];
    JOptionPane.showMessageDialog(null, "Maximum No. = " + max);
}
```

EXPERIMENT :

No.



```
if (e.getSource() == min)
```

```
{
```

```
    int min = num[0];
```

```
    for (int i = 0; i < 50; i++)
```

```
        if (min > num[i])
```

```
            min = num[i];
```

```
JOptionPane.showMessageDialog(null, "Minimum No.  
= " + min);
```

```
}
```

```
if (e.getSource() == med)
```

```
{
```

```
    int temp;
```

```
    for (int i = 0; i < 50; i++)
```

```
        for (int j = 0; j < 50; j++)
```

```
            if (num[i] < num[j])
```

```
{
```

```
                temp = num[i];
```

```
                num[i] = num[j];
```

```
                num[j] = temp;
```

```
}
```

```
t.setText("Sorted Numbers to calculate
```

```
Median = ln");
```

```
for (int i = 0; i < 50; i++)
```

```
{
```

```
t.setText(t.getText() + num[i] + " ");
```

```
if ((i + 1) % 10 == 0)
```

```
t.setText(t.getText() + "\n");
```

```
{
```

Teacher's Sign.: \_\_\_\_\_

```
double ans = num[24] + num[25];
double median = ans/2;
JOptionPane.showMessageDialog(null, "Median = " + median);
}
if (e.getSource() == search)
{
    String temp = JOptionPane.showInputDialog(null,
        "Enter the Number to search : ");
    int searchNo = Integer.parseInt(temp);
    int flg = 0;
    for (int i=0; i<50; i++)
        if (searchNo == Integer.parseInt(num[i]))
    {
        flg = 1;
        break;
    }
    if (flg == 0)
        JOptionPane.showMessageDialog(null, "Number
            Found !!!");
    }
    if (e.getSource() == ascending)
    {
        int temp;
        for (int i=0; i<50; i++)
            for (int j=0; j<50; j++)
                if (num[i] < num[j])
    {
        temp = num[i];
        num[i] = num[j];
        num[j] = temp;
    }
    t.setText("Sort by Ascending Order \n");
    for (int i=0; i<50; i++)
    {
        t.setText(t.getText() + num[i] + " ");
        if ((i+1)%10 == 0)
            t.setText(t.getText() + "\n");
    }
}
```

**EXPERIMENT :**

No. \_\_\_\_\_



```
if (e.getSource() == descending)
```

```
{}
```

```
    int temp;
```

```
    for (int i = 0; i < n; i++)
```

```
        for (int j = 0; j < n; j++)
```

```
            if (num[i] > num[j])
```

```
{}
```

```
            temp = num[i];
```

```
            num[i] = num[j];
```

```
            num[j] = temp;
```

```
}
```

```
    t.setText(t.getText() + num[i] + " ");
```

```
    if ((i + 1) % 10 == 0)
```

```
        t.setText(t.getText() + "\n");
```

```
}
```

```
}
```

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

```
{}
```

```
    new Ass3SetB2();
```

```
}
```

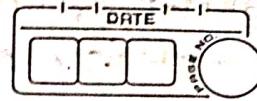
```
5
```

Teacher's Sign.: \_\_\_\_\_

2) Write a menu driven program to perform the following operations on a set of integers. The Load operation should generate 50 random integers (2 digits) and display the numbers on the screen. The save operation should save the numbers to a file "numbers.txt". The Compute menu provides various operations and the result is displayed in a message box. The search operation accepts a number from the user in an input dialog and displays the search result in a message dialog. The sort operation sorts the numbers and displays the sorted data on the screen.

→ Arr3setB3.java

```
import javax.swing.*;  
import java.awt.*;  
import java.awt.event.*;  
import java.util.*;  
  
class Arr3setB3 extends JFrame implements ActionListener  
{  
    JLabel l1, l2, l3, l4, l5, l6;  
    JTextField t1, t2, t5, t6;  
    JPasswordField t3, t4;  
    JButton b1;  
    int a, b, c;  
    char ch;  
    Random rg;  
  
    Arr3setB3()  
    {  
        super("Registration form");  
        setSize(500, 350);  
        setLayout(null);  
        setLocation(300, 200);  
        l1 = new JLabel("Registration Form");  
        l2 = new JLabel ("Name");  
        l3 = new JLabel ("Login Name");  
        l4 = new JLabel ("Password");  
    }  
}
```



l5 = new JLabel ("confirm Password");

l6 = new JLabel ("capacha");

t1 = new JTextField();

t2 = new JTextField();

t3 = new JPasswordField();

t4 = new JPasswordField();

ts = new JTextField();

ts = new JTextField();

b1 = new JButton ("submit");

add(l1); add(l2); add(l3); add(l4); add(l5);

add(l6); add(t1); add(t2); add(t3); add(t4);

add(ts); add(ts); add(b1);

l1.setBounds (170, 50, 200, 20);

l2.setBounds (50, 80, 150, 20);

t1.setBounds (210, 80, 200, 20);

t2.setBounds (50, 110, 150, 20);

t3.setBounds (210, 110, 200, 20);

t4.setBounds (50, 140, 150, 20);

ts.setBounds (210, 140, 200, 20);

l5.setBounds (50, 170, 150, 20);

t5.setBounds (210, 170, 200, 20);

l6.setBounds (50, 200, 100, 20);

ts.setBounds (210, 200, 80, 20);

t6.setBounds (300, 200, 310, 20);

b1.setBounds (100, 230, 200, 20);

b1.addActionListener (this);

```
setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
setVisible(true);

rg = new Random();
a = rg.nextInt(10);
b = rg.nextInt(30);
c = a+b;
ts.setEditable(false);
ts.setText("tat" + "+" + bt + "=");
}

public void actionPerformed(ActionEvent e)
{
    if (t1.getText().length() == 0 || t2.getText().length()
        == 0 || t3.getText().length() == 0 || t4.getText().length()
        == 0 || t5.getText().length() == 0)
        JOptionPane.showMessageDialog(null, "Registration
Failed !!! All Fields Required !!!");
    else
    {
        if (ts.getText().length() < 6)
        {
            JOptionPane.showMessageDialog(null, "Registration
Failed !!! Password Should be minimum 6
characters !!!");
            t3.requestFocus();
        }
        else
        {
            int flg1 = 0, flg2 = 0, flg3 = 0;
            for (int i = 0; i < t3.getText().length(); i++)
            {
                ch = t3.getText().charAt(i);
                if (ch >= 65 && ch <= 90)
                    flg1 = 1;
                if (ch >= 48 && ch <= 57)
                    flg2 = 1;
                if (ch >= 33 & ch <= 43) || (ch == 64)
                    flg3 = 1;
            }
            if (flg1 == 0 || flg2 == 0 || flg3 == 0)
                JOptionPane.showMessageDialog(null, "Registration
Failed !!! Invalid Input !!!");
        }
    }
}
```



}

```
if (flg3 == 0)
```

```
JOptionPane.showMessageDialog(null, "Registration Failed !!! Password should containing at least one uppercase letter !!!");
```

```
else if (flg2 == 0)
```

```
JOptionPane.showMessageDialog(null, "Registration Failed !!! Password should containing at least one digit !!!");
```

```
else if (flg3 == 0)
```

```
JOptionPane.showMessageDialog(null, "Registration Failed !!! Password should containing at least one symbol !!!");
```

```
if (flg1 == 1 && flg2 == 1 && flg3 == 1)
```

```
}
```

```
if (t3.getText().equals(t4.getText()))
```

```
{
```

```
if (cc == Integer.parseInt(t6.getText()))
```

```
JOptionPane.showMessageDialog(null, "Registration successful !!!");
```

```
else
```

```
JOptionPane.showMessageDialog(null, "Registration Failed !!! capacha should match !!!");
```

```
}
```

```
else
```

```
JOptionPane.showMessageDialog(null, "Registration Failed!!! Confirm password and Password fields should match !!!");
```

```
}
```

public static void main (String args [])

new AssetB3 () ;

frandom  
08/10/2024