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NSP

QUES:- Design System for Temperature conversion (celsius to fahrenheit and vice versa)

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

/*<applet code ="converter" width="650"
height="400"></applet>*/

public class converter extends Applet
{
    Button b1;
    TextField t1,t2,t3;
    Label l1,l2,l3;
    CheckboxGroup cg;
    Checkbox r1,r2;
    public void init()
    {
        setLayout(null);
        l1=new Label("Enter the value:");
        t1=new TextField();
        l2=new Label("Fahrenheit to Celsius is: ");
```

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t2=new TextField();
l3=new Label("Celsius to Fahrenheit is: ");
t3=new TextField();
cg =new CheckboxGroup();
r1=new Checkbox("Fahrenheit to
Celsius",cg,false);//checkbox(string,checkboxgrp,false)
r2=new Checkbox("Celsius to Fahrenheit",cg,false);
b1=new Button("CLEAR");
l1.setBounds(170,50,100,25);
t1.setBounds(280,50,100,25);
r1.setBounds(100,100,120,25);
r2.setBounds(370,100,120,25);
l2.setBounds(150,150,100,25);
t2.setBounds(300,150,100,25);//setbounds(x axis,y
axis,length, height)
l3.setBounds(150,200,100,25);
t3.setBounds(300,200,100,25);
b1.setBounds(230,250,100,25);
b1.addActionListener(new But());
r1.addItemListener(new Rdbtn());
r2.addItemListener(new Rdbtn());
add(l1);add(t1);
add(r1);add(r2);
add(l2);add(t2);
add(l3);add(t3);
add(b1);
}

```

class But implements ActionListener

```

{
    public void actionPerformed(ActionEvent e)
    {
        if(e.getSource()==b1)
        {
            t1.setText("");
            t2.setText("");
            t3.setText("");
        }
    }
}

class Rdbtn implements ItemListener
{
    double a1,a2,a3;
    public void itemStateChanged(ItemEvent ie)
    {
        a1 = Double.parseDouble(t1.getText());

        if(ie.getSource() == r1)
        {
            a2 = ((a1 - 32) * 5)/9;

            t2.setText(String.valueOf(a2));
        }

        if(ie.getSource() == r2)
        {

```

a3 = (((a1 * 9)/5) + 32);

t3.setText(String.valueOf(a3));

}

}

}

}

OUTPUT:

