



## **Project-Object Oriented Programming**

Kartish was the head of department for sports and games in a college. He wants to create an application for students to register for the sports they're interested in to participate without any extra paperwork. Help Kartish in making this possible by using GUI. Events included: Basketball, Volleyball, Badminton, Tennis, Table tennis. Each game can have single or double participation if available

**Program:**

```
import javax.swing.*;
import java.awt.*;
import java.awt.event.*;
import java.sql.*;
import java.util.*;
class RegistrationForm extends JFrame implements ItemListener
{
    static JFrame f;
    static JLabel l;
```

```
// combobox
static JComboBox c1;
    public static void main(String [] args) throws Exception
    {
        f=new JFrame();
        Container c;
        JLabel title,name,mno,gender,add,res;
        JTextField tname,tmno;
        JRadioButton male,female;
        ButtonGroup gengp;
        JTextArea tadd,resadd,tout;
        JCheckBox term;
```

```
JButton sub,reset;  
f.setTitle("RegistrationForm");  
f.setBounds(200,80,1150,700);  
f.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);  
f.setResizable(false);  
c=f.getContentPane();  
c.setLayout(null);
```

```
//label-title  
title=new JLabel("RegistrationForm");
```

```
title.setFont(new Font("Arial",Font.PLAIN,30));  
title.setSize(400,30);  
title.setLocation(420,20);  
c.add(title);
```

```
//label-name
```

```
name=new JLabel("Name");  
name.setFont(new Font("Arial",Font.PLAIN,30));  
name.setSize(200,30);  
name.setLocation(50,70);  
c.add(name);
```

```
//label-mno
```

```
mno=new JLabel("ID Number");
```

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

```
mno.setSize(300,30);
```

```
mno.setLocation(50,120);
```

```
c.add(mno);
```

```
//TextField-name
```

```
tname=new JTextField();
```

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

```
tname.setSize(120,30);
```

```
tname.setLocation(275,70);
```

```
c.add(tname);
```

```
    //TextField-mno
```

```
    tmno= new JTextField();
```

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

```
    tmno.setSize(120,30);
```

```
    tmno.setLocation(275,120);
```

```
    c.add(tmno);
```

```
    //Label-Gender
```

```
gender= new JLabel("Gender");  
gender.setFont(new Font("Arial",Font.PLAIN,30));  
gender.setSize(300,30);  
gender.setLocation(50,170);  
c.add(gender);
```

```
//RadioButton-male
```

```
male=new JRadioButton("male");  
male.setFont(new Font("Arial",Font.PLAIN,30));  
male.setSelected(true);  
male.setSize(100,20);
```



```
male.setLocation(255,170);
```

```
c.add(male);
```

```
//RadioButton-female
```

```
female=new JRadioButton("female");
```

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

```
female.setSelected(true);
```

```
female.setSize(200,20);
```

```
female.setLocation(395,170);
```

```
c.add(female);
```

```
//ButtonGroup
```

```
gengp=new ButtonGroup();
```

```
gengp.add(male);
```

```
gengp.add(female);
```

```
//Label address
```

```
add=new JLabel("Address");
```

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

```
add.setSize(350,30);
```

```
add.setLocation(50,230);
```

```
c.add(add);
```

```
//TextArea-address
```

```
tadd=new JTextArea();
```

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

```
tadd.setSize(300,30);
```

```
tadd.setLocation(275,230);
```

```
tadd.setLineWrap(true);
```

```
c.add(tadd);
```

```
//Checkbox- terms and conditionn
```

```
term= new JCheckBox("Accept Terms and conditions");
```

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

```
term.setSize(450,20);
```

```
term.setLocation(110,320);
```

```
c.add(term);
```

```
//Button-Reset
```

```
reset=new JButton("Reset");
```

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

```
reset.setSize(150,25);
```

```
reset.setLocation(370,410);  
c.add(reset);
```

```
//Button-submit  
sub=new JButton("Submit");  
sub.setFont(new Font("Arial",Font.PLAIN,30));  
sub.setSize(150,25);  
sub.setLocation(100,410);  
c.add(sub);
```

```
//Label-result  
res=new JLabel("");  
res.setFont(new Font("Arial",Font.PLAIN,30));  
res.setSize(500,30);  
res.setLocation(50,515);  
c.add(res);  
  
//TextArea- result  
  
resadd=new JTextArea();
```

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

```
resadd.setSize(200,30);
```

```
resadd.setLocation(275,510);
```

```
c.add(resadd);
```

```
//Printing details
```

```
tout=new JTextArea();
```

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

```
tout.setSize(450,500);
```

```
tout.setLocation(650,80);
```

```
tout.setLineWrap(true);  
tout.setEditable(false);  
f.setVisible(true);  
c.add(tout);
```

```
//ActionListener for submit button  
sub.addActionListener(new ActionListener()  
{  
    public void actionPerformed(ActionEvent e)  
    {  
        if(term.isSelected())
```



```
        {  
            String data,data1,data2,data3;  
            data="Name:"+tname.getText() + "\n" + "ID  
Number:"+tmno.getText() + "\n";  
            if(male.isSelected()  
  
                data1="Gender:"+male.getText() + "\n";  
            else  
                data1="Gender:"+female.getText() + "\n";  
                data2="Address:"+tadd.getText()+"\n";  
            data3="Sports:"+c1.getSelectedItem();  
            tout.setText(data+data1+data2+data3);
```

```
        tout.setEditable(false);
        res.setText("Registration successfully....");
    }
    else
    {

        // resadd.setText("null");
        tout.setText("Please accept the terms and conditions");
    }
});
reset.addActionListener(new ActionListener()
{
```

```
public void actionPerformed(ActionEvent e)
{
    tname.setText("");
    tadd.setText("");
    tmno.setText("");
    res.setText("");
    tout.setText("");
    term.setSelected(false);
    //resadd.setText("");
}

});

RegistrationForm s = new RegistrationForm();
```

```
// array of string containing cities
```

```
String s1[] = { "Kabaddi", "Cricket", "Volley Ball", "Basket Ball", "Hockey" };
```

```
// create checkbox
```

```
c1 = new JComboBox(s1);
```

```
// add ItemListener
```

```
c1.addItemListener(s);
```

```
// create labels
```

```
l = new JLabel("select your game ");
```

```
// set color of text
```

```
l.setForeground(Color.red);
```

```
f.add(l);
```

```
// add combobox to panel
```

```
f.add(c1);
```

```
l.setSize(150,25);
```

```
l.setLocation(100,450);
```

```
c1.setSize(150,25);
```

```
        c1.setLocation(100,470);
```

```
    }
```

```
    public void itemStateChanged(ItemEvent e)
```

```
    {
```

```
    }
```

```
}
```

## Output:

### Before Entering Of Data

RegistrationForm

Name

ID Number

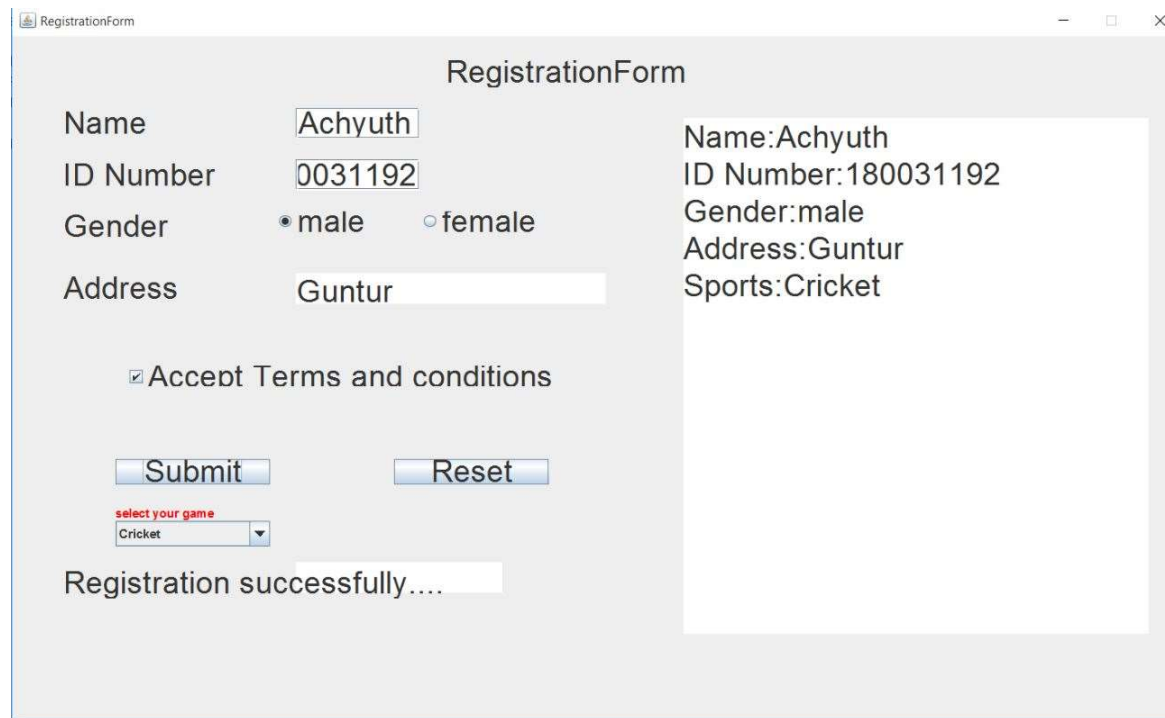
Gender ☒ male ☐ female

Address

☐ Accept Terms and conditions

select your game  
Kabaddi

## After Entering Of Data



RegistrationForm

Name: Achyuth  
ID Number: 0031192  
Gender: male  
Address: Guntur

☒ Accept Terms and conditions

select your game  
Cricket

Registration successfully....

Summary Panel:  
Name: Achyuth  
ID Number: 180031192  
Gender: male  
Address: Guntur  
Sports: Cricket