

**PROGRAM TITLE:**Write a Java Program to make a student registration form and insert the values in a database where the course are selected from drop down box and date from date picker.

**PROGRAM CODE:**

```
import java.awt.*;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import java.sql.*;
import java.util.*;
import java.util.Date;
import java.util.Vector;
import java.util.Calendar;
import org.jdesktop.swing.JXDatePicker;
import java.text.SimpleDateFormat;
import javax.swing.*;
import javax.swing.table.DefaultTableModel;

public class Assign extends JFrame implements ActionListener{

    JLabel l1,l2,l3,l4,l5;
    JTextField tf1,tf2,tf3;
    JButton b1,b2,b3;
    JComboBox c1;
    JXDatePicker j;
    JPanel p;

    ResultSet r,r1;
    Connection c;
    String[] col={"Name","Roll no","Course","Date of Birth"};
    Font f=new Font("Serif",Font.BOLD,20);
    Assign()
    {
        j=new JXDatePicker();
        p=new JPanel();
        j.setDate(new GregorianCalendar().getTime());
        j.setFormats(new SimpleDateFormat("dd-MM-yyyy"));
        p.add(j);
        add(p);

        setVisible(true);
        setSize(700,700);
        setLayout(null);
        setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        setTitle("Registration Form");
        /*-----LABELS-----*/
        l1=new JLabel("Registration Form in GUI format");
        l1.setForeground(Color.orange);
        l1.setFont(f);
        l2=new JLabel("Name:");
        l3=new JLabel("Roll:");
        l5=new JLabel("Date Of Birth:");
        l4=new JLabel("Course:");

        tf1=new JTextField();
        tf2=new JTextField();
        tf3=new JTextField();

        b1=new JButton("Submit");
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        b2=new JButton("Clear");
        b3=new JButton("Display");
        b1.addActionListener(this);
        b2.addActionListener(this);
        b3.addActionListener(this);

        l1.setBounds(100, 30, 400, 30);
        l2.setBounds(80, 70, 200, 30);
        l3.setBounds(80, 110, 200, 30);
        l4.setBounds(80, 150, 200, 30);
        l5.setBounds(80, 190, 200, 30);
        tf1.setBounds(300, 70, 200, 30);
        tf2.setBounds(300, 110, 200, 30);
        b1.setBounds(50, 350, 100, 30);
        b2.setBounds(170, 350, 100, 30);
        b3.setBounds(290, 350, 100, 30);
        p.setBounds(300, 190, 250, 30);
        add(l1);
        add(l2);
        add(tf1);
        add(l3);
        add(tf2);
        add(l4);
        add(tf3);
        add(l5);
        add(b1);
        add(b2);
        add(b3);

    try{
        Class.forName("oracle.jdbc.driver.OracleDriver");
        c=DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:xe",
        "system","oracle" );
        Statement st=c.createStatement();
        String str="select course from course";
        r=st.executeQuery(str);
        Vector v=new Vector();
        while(r.next())
        {
            String id=r.getString(1);
            v.add(id);
        }
        c1=new JComboBox(v);
        c1.setBounds(300, 150, 200, 30);
        add(c1);
        st.close();
        r.close();
    }
    catch(Exception e)
    {
        System.out.println(e);
    }
}

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

@Override
public void actionPerformed(ActionEvent e) {
    if(e.getSource()==b1)
    {
        String s1=(tf1.getText()).trim();
        String s2=(tf2.getText()).trim();
        String s3;
        SimpleDateFormat f=new SimpleDateFormat("dd/MM/yyyy");
    }
}

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Date d= j.getDate();
s3=f.format(d);
String s6=c1.getSelectedItem().toString();

if((s1.equals("")==false)&&(s2.equals("")==false))
{
    try{
        int xy=Integer.parseInt(s2);
        Statement st=c.createStatement();
        String str="Insert into student(name,roll,dob,course) values
('"+s1+"','"+xy+",to_date('"+s3+"','dd/mm/yyyy'),'"+s6+"')";
        st.executeUpdate(str);
        JOptionPane.showMessageDialog(b1,"inserted successfully");
        tf1.setText(" ");
        tf2.setText(" ");
        tf3.setText(" ");
    }
    catch(Exception ec)
    {
        JOptionPane.showMessageDialog(b1,ec);
    }
}
else
{
    JOptionPane.showMessageDialog(b1,"Some Fields are empty");
}
}
else if(e.getSource()==b3)
{
    JFrame f=new JFrame("Database Search Result");
    f.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
    f.setLayout(new BorderLayout());
    DefaultTableModel m=new DefaultTableModel();
    m.setColumnIdentifiers(col);
    JTable t=new JTable();
    t.setModel(m);
    t.setAutoResizeMode(JTable.AUTO_RESIZE_ALL_COLUMNS);
    t.setFillViewportHeight(true);
    JScrollPane s=new JScrollPane(t);
    s.setHorizontalScrollBarPolicy(JScrollPane.HORIZONTAL_SCROLLBAR_AS_NEEDED);
    s.setVerticalScrollBarPolicy(JScrollPane.VERTICAL_SCROLLBAR_AS_NEEDED);
    String aa,bb,cc,dd;
    dd=bb=aa=cc="";
    try{
        Statement st=c.createStatement();
        String str="select name,roll,course,dob from student";
        r1=st.executeQuery(str);
        int flag=0;
        while(r1.next())
        {
            aa=r1.getString("name");
            bb=r1.getString("roll");
            cc=r1.getString("course");
            dd=r1.getString("dob");
            m.addRow(new Object[] {aa,bb,cc,dd});
            flag=1;
        }
        if(flag==0)
        {
            JOptionPane.showMessageDialog(b3,"no record
found","Error",JOptionPane.ERROR_MESSAGE);
        }
        f.add(s);
        f.setVisible(true);
    }
}

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        f.setSize(400,300);
        st.close();
        r1.close();
    }
    catch(Exception ec)
    {

    }
}
else
{
    tf1.setText(" ");
    tf3.setText(" ");
    tf2.setText(" ");
}
}
}
}
}

```

## OUTPUT :

Registration Form

**Registration Form in GUI format**

Name: Akash Pareek

Roll: 09

Course: Computer Science

Date Of Birth: 07-10-2014

Display

**Message**

i inserted successfully

OK

Applet showing message when record successfully inserted

Database Search Result			
Name	Roll no	Course	Date of Birth
Bireswar Roy	15	Physics	2014-10-31 ...
Raj Kr Sarkar	8	English	2015-08-04 ...
Bitan Majumd...	7	Math	2015-05-05 ...
Akash Pareek	9	Computer Sci...	2014-10-07 ...

Applet displaying records when display button is clicked.