ASSIGNMENT -9

Job Application Eligibility Checker using Java Swing

1. Design and implement a **Java Swing-based GUI application** that allows users to apply for a job and checks their eligibility based on their academic performance and skill set.

The application should collect applicant details such as **name**, **age**, **qualification**, **specialization**, **CGPA**, **10th percentage**, and **12th percentage**, along with their selected **technical** and **soft skills**.

Eligibility should be determined according to the following criteria:

- The candidate must have a **CGPA of 8.0 or above**.
- The candidate must have scored **at least 85% in 10th** and **80% in 12th**.
- The candidate must have **at least two technical skills** selected.
- The candidate must have **at least one soft skill** selected.

If all conditions are satisfied, the application should display a message indicating that the candidate is *"Eligible for the job."* Otherwise, it should display *"Not Eligible for the job."*

The GUI should include interactive components like **labels, text fields, combo boxes, and checkboxes**, along with a **button** to evaluate eligibility and a **result label** to show the outcome.

CODE :-

```
import javax.swing.*;

import java.awt.*;

import java.awt.event.*;


public class Assignment9 {
```

```
    public static void main(String[] args) {
        JFrame frame = new JFrame("Assignment 9 - Job Application (Eligibility Check)");
        frame.setSize(550, 720);
        frame.setLayout(null);
        frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        frame.setResizable(false);

        JLabel nameLabel = new JLabel("Name:");
        nameLabel.setBounds(50, 30, 150, 25);
        frame.add(nameLabel);

        JTextField nameField = new JTextField();
        nameField.setBounds(200, 30, 250, 25);
        frame.add(nameField);

        JLabel ageLabel = new JLabel("Age:");
        ageLabel.setBounds(50, 70, 150, 25);
        frame.add(ageLabel);

        JTextField ageField = new JTextField();
        ageField.setBounds(200, 70, 250, 25);
        frame.add(ageField);

        JLabel qualLabel = new JLabel("Qualification:");
        qualLabel.setBounds(50, 110, 150, 25);
        frame.add(qualLabel);

        String[] qualifications = {"B.Tech", "M.Tech", "BCA", "MCA", "B.Sc", "M.Sc", "Diploma",
"Other"};
        JComboBox<String> qualBox = new JComboBox<>(qualifications);
```

```
qualBox.setBounds(200, 110, 250, 25);
frame.add(qualBox);

JLabel specLabel = new JLabel("Specialization:");
specLabel.setBounds(50, 150, 150, 25);
frame.add(specLabel);

String[] specs = {"CSE", "IT", "ECE", "EEE", "ME", "Civil", "AI/ML", "Other"};
JComboBox<String> specBox = new JComboBox<>(specs);
specBox.setBounds(200, 150, 250, 25);
frame.add(specBox);

JLabel cgpaLabel = new JLabel("CGPA:");
cgpaLabel.setBounds(50, 190, 150, 25);
frame.add(cgpaLabel);

JTextField cgpaField = new JTextField();
cgpaField.setBounds(200, 190, 250, 25);
frame.add(cgpaField);

JLabel tenthLabel = new JLabel("10th Percentage:");
tenthLabel.setBounds(50, 230, 150, 25);
frame.add(tenthLabel);

JTextField tenthField = new JTextField();
tenthField.setBounds(200, 230, 250, 25);
frame.add(tenthField);

JLabel twelfthLabel = new JLabel("12th Percentage:");
```

```
twelfthLabel.setBounds(50, 270, 150, 25);
frame.add(twelfthLabel);

JTextField twelfthField = new JTextField();
twelfthField.setBounds(200, 270, 250, 25);
frame.add(twelfthField);

JLabel skillsLabel = new JLabel("Technical Skills:");
skillsLabel.setBounds(50, 310, 150, 25);
frame.add(skillsLabel);

JCheckBox java = new JCheckBox("Java");
java.setBounds(200, 310, 80, 25);
JCheckBox python = new JCheckBox("Python");
python.setBounds(280, 310, 80, 25);
JCheckBox cpp = new JCheckBox("C++");
cpp.setBounds(360, 310, 80, 25);
JCheckBox web = new JCheckBox("Web Dev");
web.setBounds(200, 340, 100, 25);
JCheckBox db = new JCheckBox("SQL/DBMS");
db.setBounds(300, 340, 120, 25);
JCheckBox ml = new JCheckBox("Machine Learning");
ml.setBounds(200, 370, 200, 25);
frame.add(java); frame.add(python); frame.add(cpp);
frame.add(web); frame.add(db); frame.add(ml);

JLabel softLabel = new JLabel("Soft Skills:");
softLabel.setBounds(50, 410, 150, 25);
frame.add(softLabel);
```

```
JCheckBox comm = new JCheckBox("Communication");
comm.setBounds(200, 410, 150, 25);
JCheckBox team = new JCheckBox("Teamwork");
team.setBounds(350, 410, 120, 25);
JCheckBox lead = new JCheckBox("Leadership");
lead.setBounds(200, 440, 120, 25);
JCheckBox prob = new JCheckBox("Problem Solving");
prob.setBounds(320, 440, 150, 25);
frame.add(comm); frame.add(team); frame.add(lead); frame.add(prob);

JButton checkBtn = new JButton("Check Eligibility");
checkBtn.setBounds(160, 500, 200, 40);
frame.add(checkBtn);

JLabel resultLabel = new JLabel("");
resultLabel.setBounds(50, 570, 450, 25);
resultLabel.setForeground(Color.BLUE);
frame.add(resultLabel);

checkBtn.addActionListener(new ActionListener() {
   public void actionPerformed(ActionEvent e) {
      try {
         String name = nameField.getText();
         double cgpa = Double.parseDouble(cgpaField.getText());
         double tenth = Double.parseDouble(tenthField.getText());
         double twelfth = Double.parseDouble(twelfthField.getText());

         int techCount = 0;
```

```
            if (java.isSelected()) techCount++;
            if (python.isSelected()) techCount++;
            if (cpp.isSelected()) techCount++;
            if (web.isSelected()) techCount++;
            if (db.isSelected()) techCount++;
            if (ml.isSelected()) techCount++;

            int softCount = 0;
            if (comm.isSelected()) softCount++;
            if (team.isSelected()) softCount++;
            if (lead.isSelected()) softCount++;
            if (prob.isSelected()) softCount++;

            if (cgpa >= 8.0 && tenth >= 85 && twelfth >= 80 && techCount >= 3 &&
softCount >= 2)
                resultLabel.setText(name + " - Eligible for the job");
            else
                resultLabel.setText(name + " - Not Eligible for the job");
        }
catch (Exception ex) {
            resultLabel.setText("Please enter valid numeric values in all fields.");
        }
      }
    });

    frame.setVisible(true);
  }
}
```
