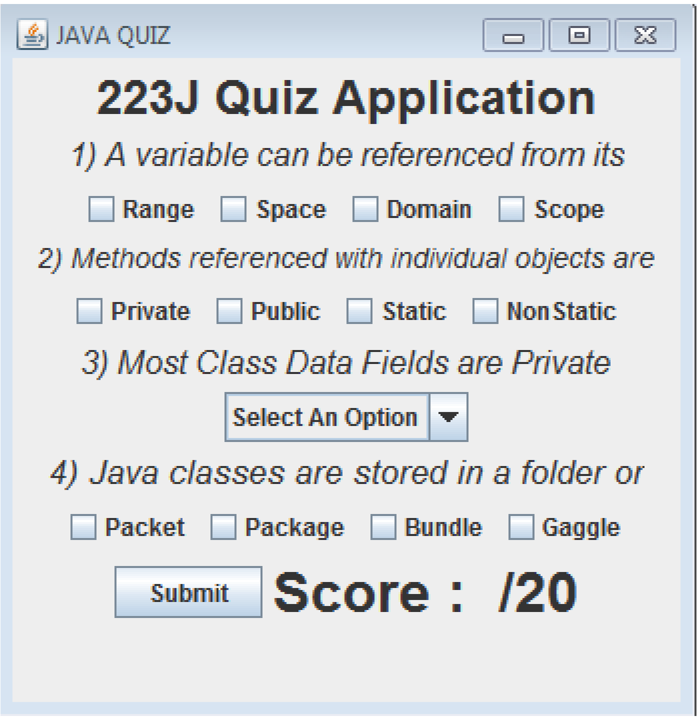


JAVA QUIZ

223J Quiz Application

1) A variable can be referenced from its

□ Range □ Space □ Domain □ Scope

2) Methods referenced with individual objects are

□ Private □ Public □ Static □ Non Static

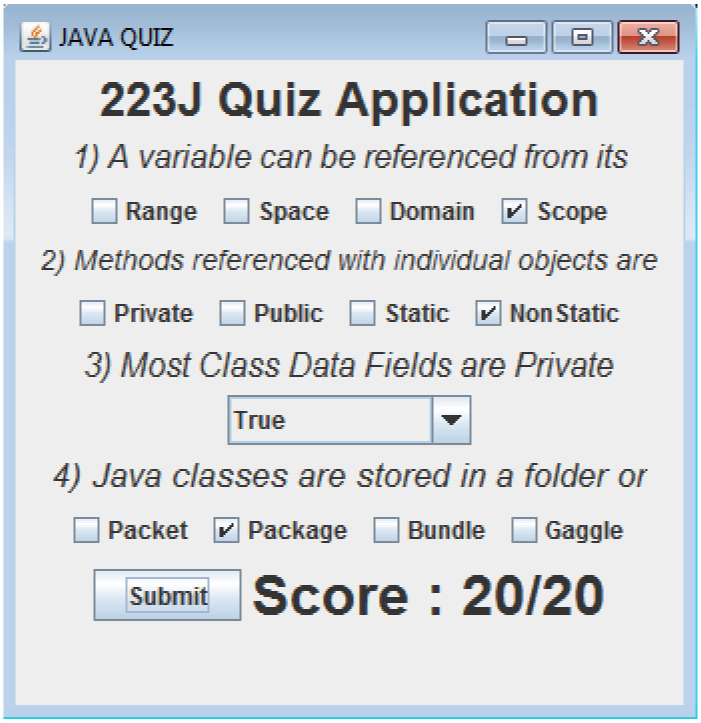
3) Most Class Data Fields are Private

Select An Option

4) Java classes are stored in a folder or

□ Packet □ Package □ Bundle □ Gaggle

Submit Score : /20



JAVA QUIZ

223J Quiz Application

1) A variable can be referenced from its

□ Range □ Space □ Domain ☑ Scope

2) Methods referenced with individual objects are

□ Private □ Public □ Static ☑ Non Static

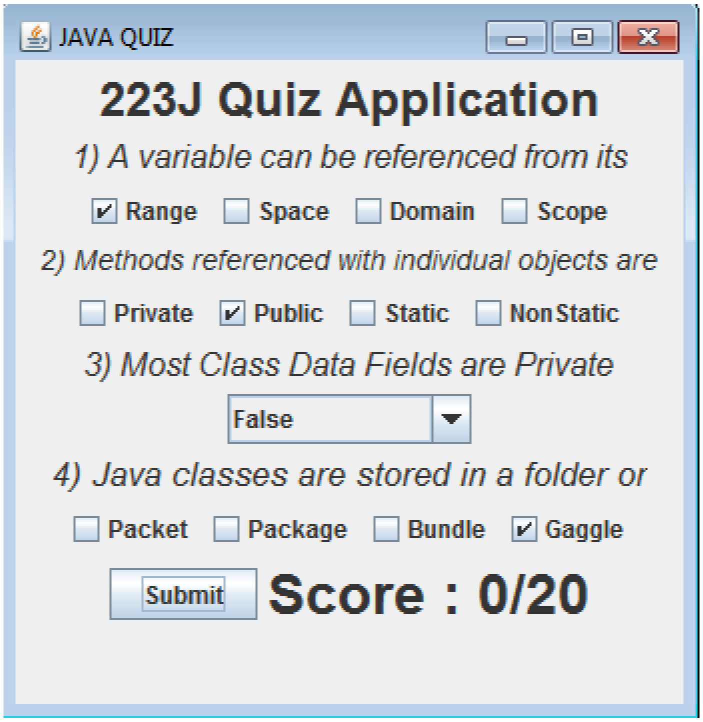
3) Most Class Data Fields are Private

True

4) Java classes are stored in a folder or

□ Packet ☑ Package □ Bundle □ Gaggle

Submit Score : 20/20



223J Quiz Application

1) A variable can be referenced from its

☑ Range □ Space □ Domain □ Scope

2) Methods referenced with individual objects are

□ Private ☑ Public □ Static □ Non Static

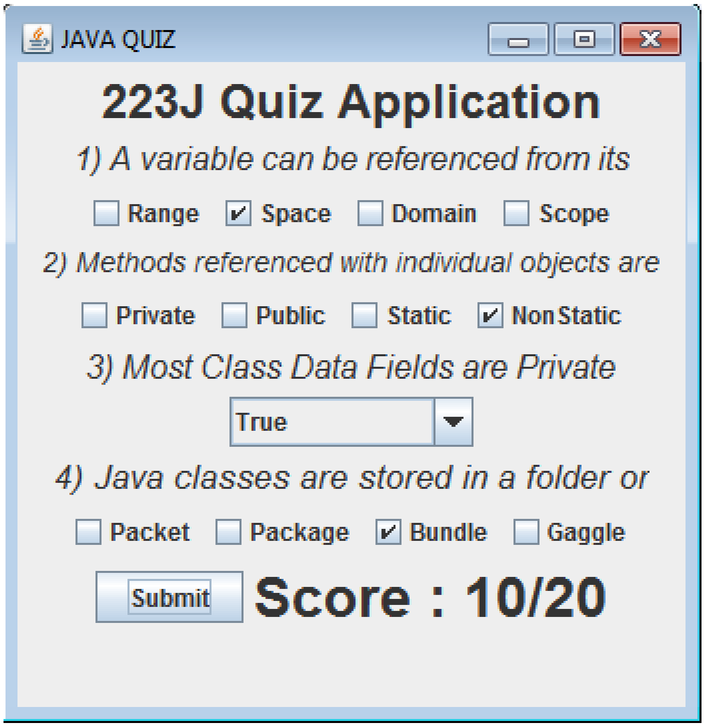
3) Most Class Data Fields are Private

False

4) Java classes are stored in a folder or

□ Packet □ Package □ Bundle ☑ Gaggle

Score : 0/20



223J Quiz Application

1) A variable can be referenced from its

□ Range ☑ Space □ Domain □ Scope

2) Methods referenced with individual objects are

□ Private □ Public □ Static ☑ Non Static

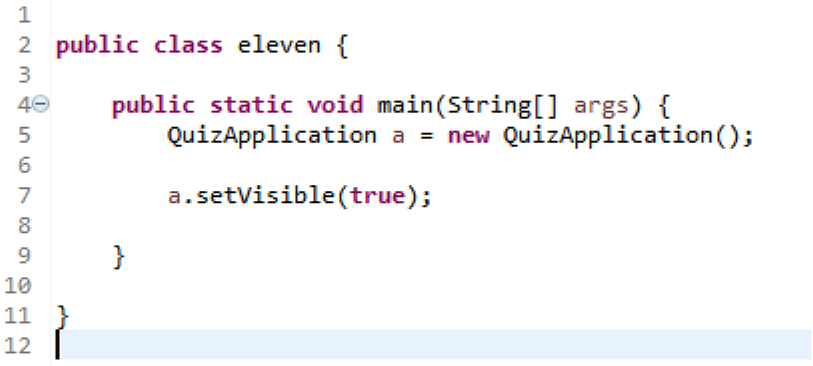
3) Most Class Data Fields are Private

True

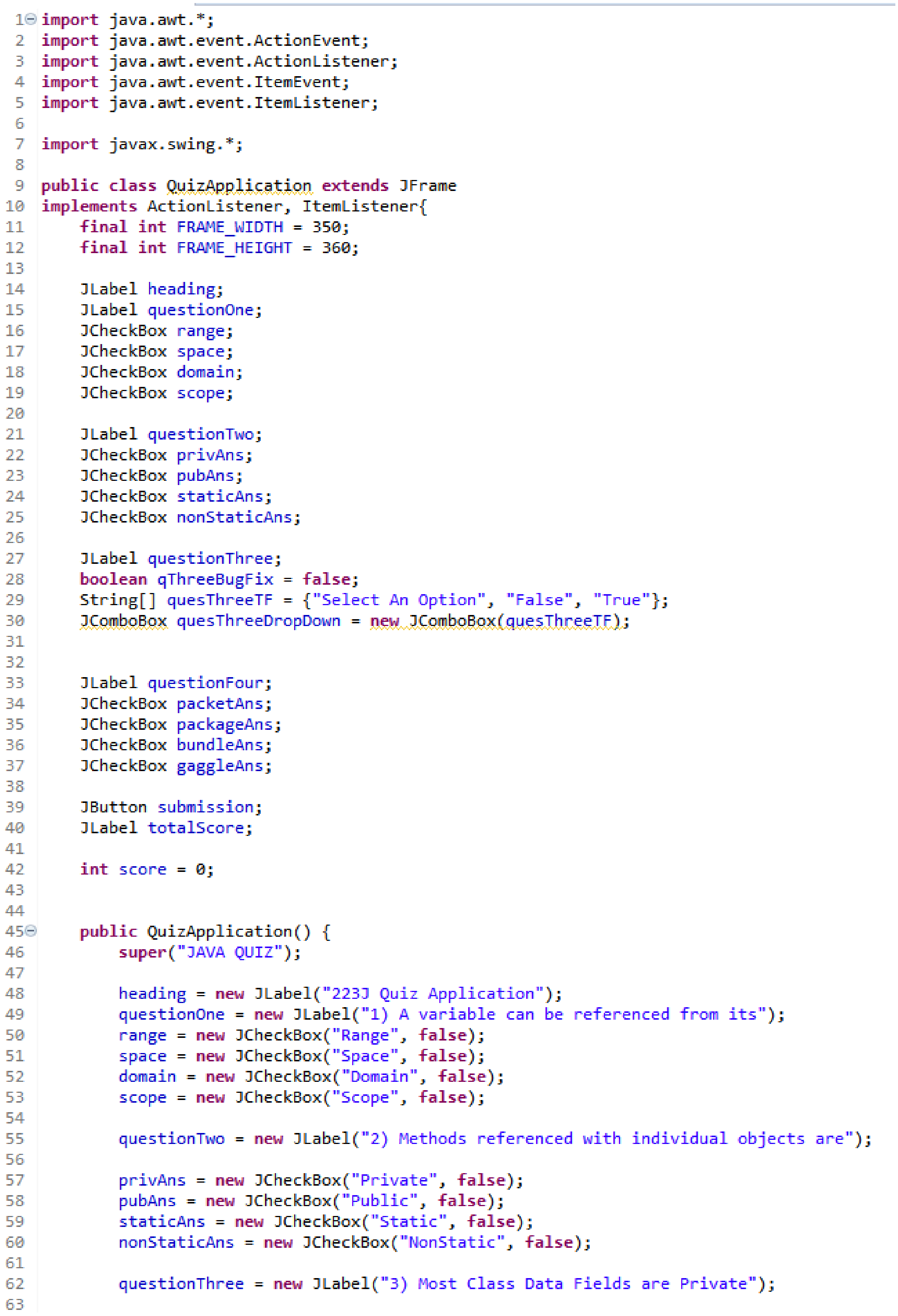
4) Java classes are stored in a folder or

□ Packet □ Package ☑ Bundle □ Gaggle

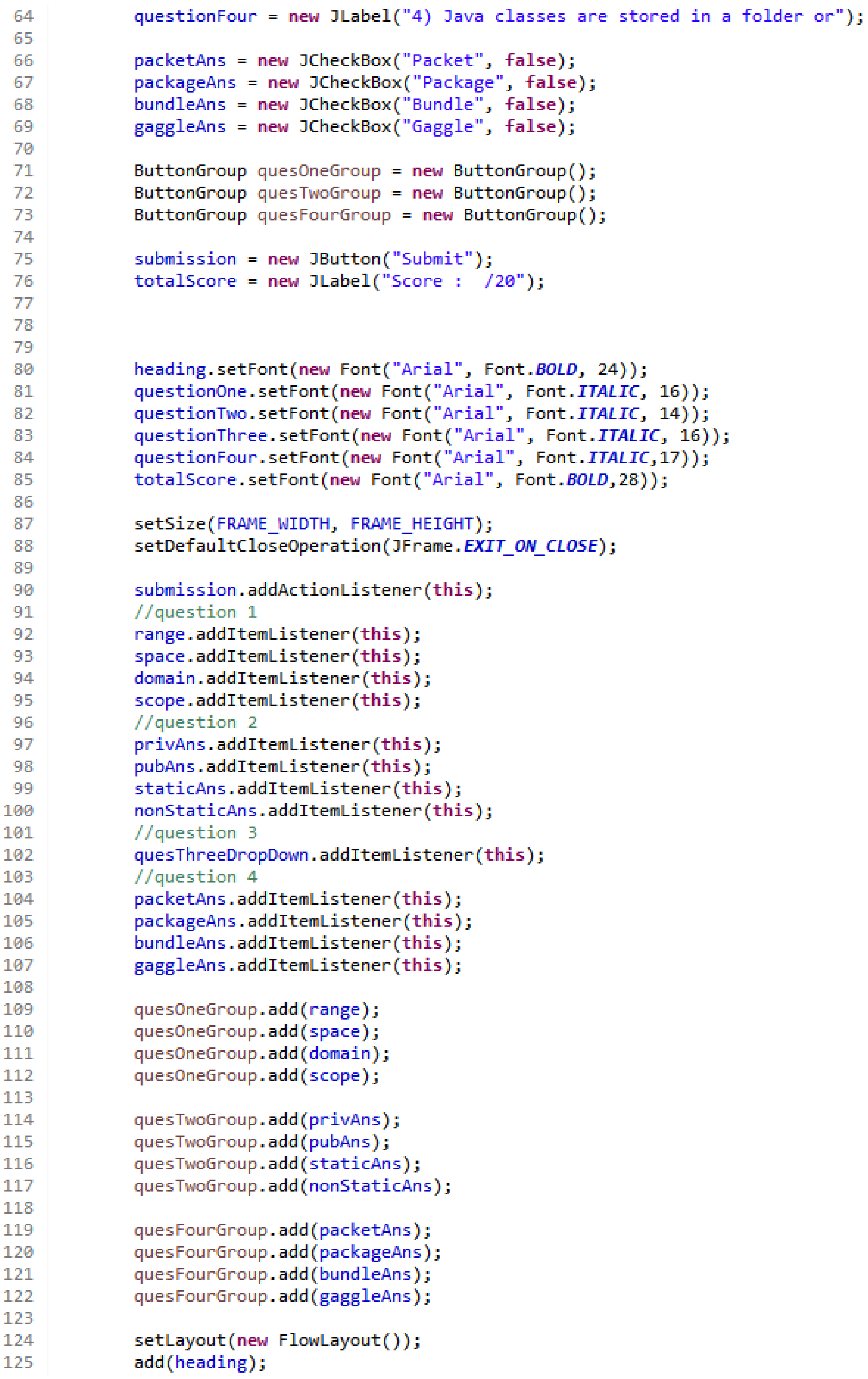
Score : 10/20



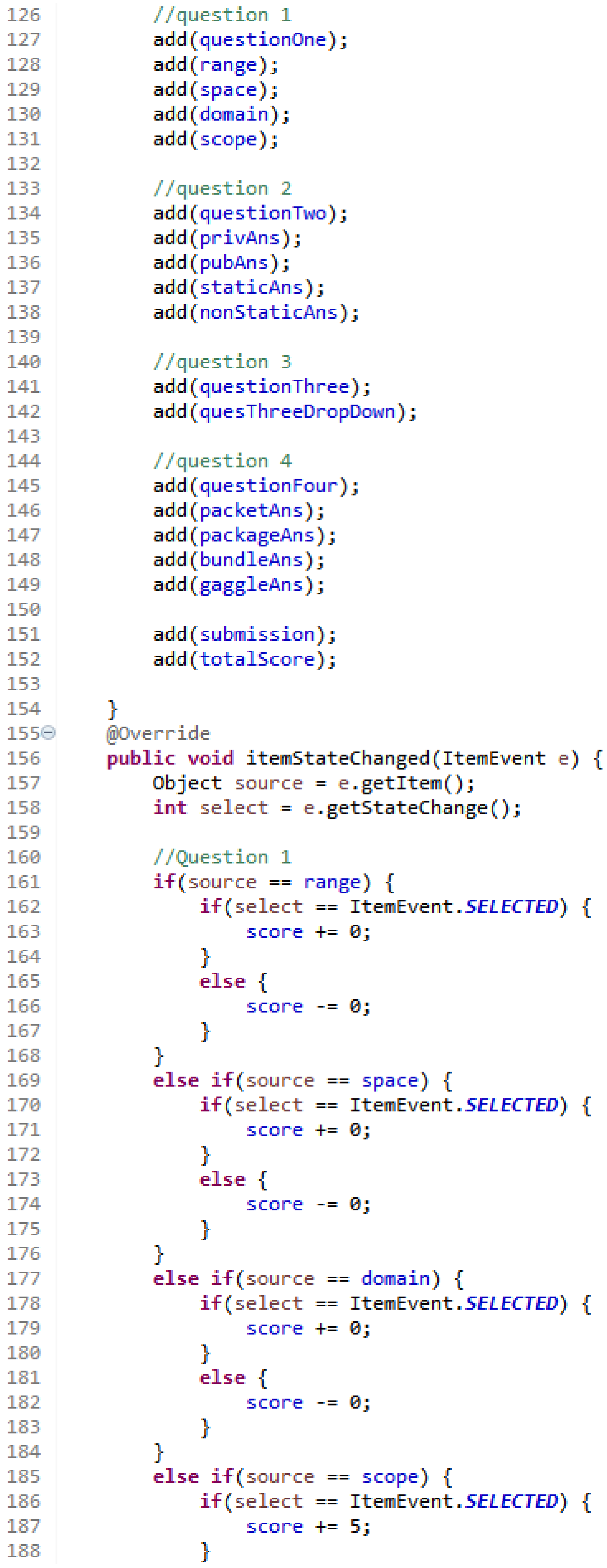
```java

public class eleven {

    public static void main(String[] args) {
        QuizApplication a = new QuizApplication();

        a.setVisible(true);

    }

}

```



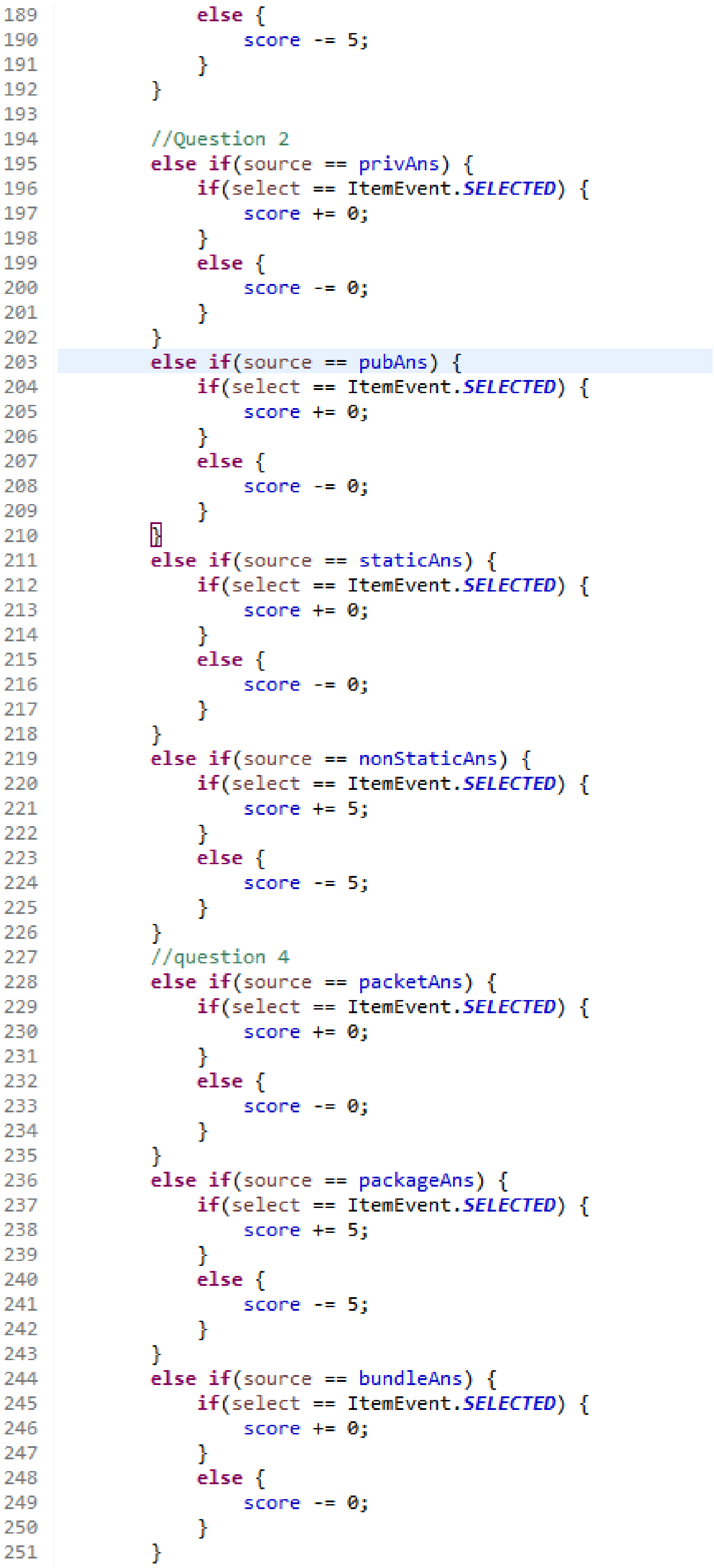
```
import java.awt.*;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import java.awt.event.ItemEvent;
import java.awt.event.ItemListener;

import javax.swing.*;

public class QuizApplication extends JFrame
implements ActionListener, ItemListener{
    final int FRAME_WIDTH = 350;
    final int FRAME_HEIGHT = 360;

    JLabel heading;
    JLabel questionOne;
    JCheckBox range;
    JCheckBox space;
    JCheckBox domain;
    JCheckBox scope;

    JLabel questionTwo;
    JCheckBox privAns;
    JCheckBox pubAns;
    JCheckBox staticAns;
    JCheckBox nonStaticAns;

    JLabel questionThree;
    boolean qThreeBugFix = false;
    String[] quesThreeTF = {"Select An Option", "False", "True"};
    JComboBox quesThreeDropDown = new JComboBox(quesThreeTF);


    JLabel questionFour;
    JCheckBox packetAns;
    JCheckBox packageAns;
    JCheckBox bundleAns;
    JCheckBox gaggleAns;

    JButton submission;
    JLabel totalScore;

    int score = 0;


    public QuizApplication() {
        super("JAVA QUIZ");

        heading = new JLabel("223J Quiz Application");
        questionOne = new JLabel("1) A variable can be referenced from its");
        range = new JCheckBox("Range", false);
        space = new JCheckBox("Space", false);
        domain = new JCheckBox("Domain", false);
        scope = new JCheckBox("Scope", false);

        questionTwo = new JLabel("2) Methods referenced with individual objects are");

        privAns = new JCheckBox("Private", false);
        pubAns = new JCheckBox("Public", false);
        staticAns = new JCheckBox("Static", false);
        nonStaticAns = new JCheckBox("NonStatic", false);

        questionThree = new JLabel("3) Most Class Data Fields are Private");

```



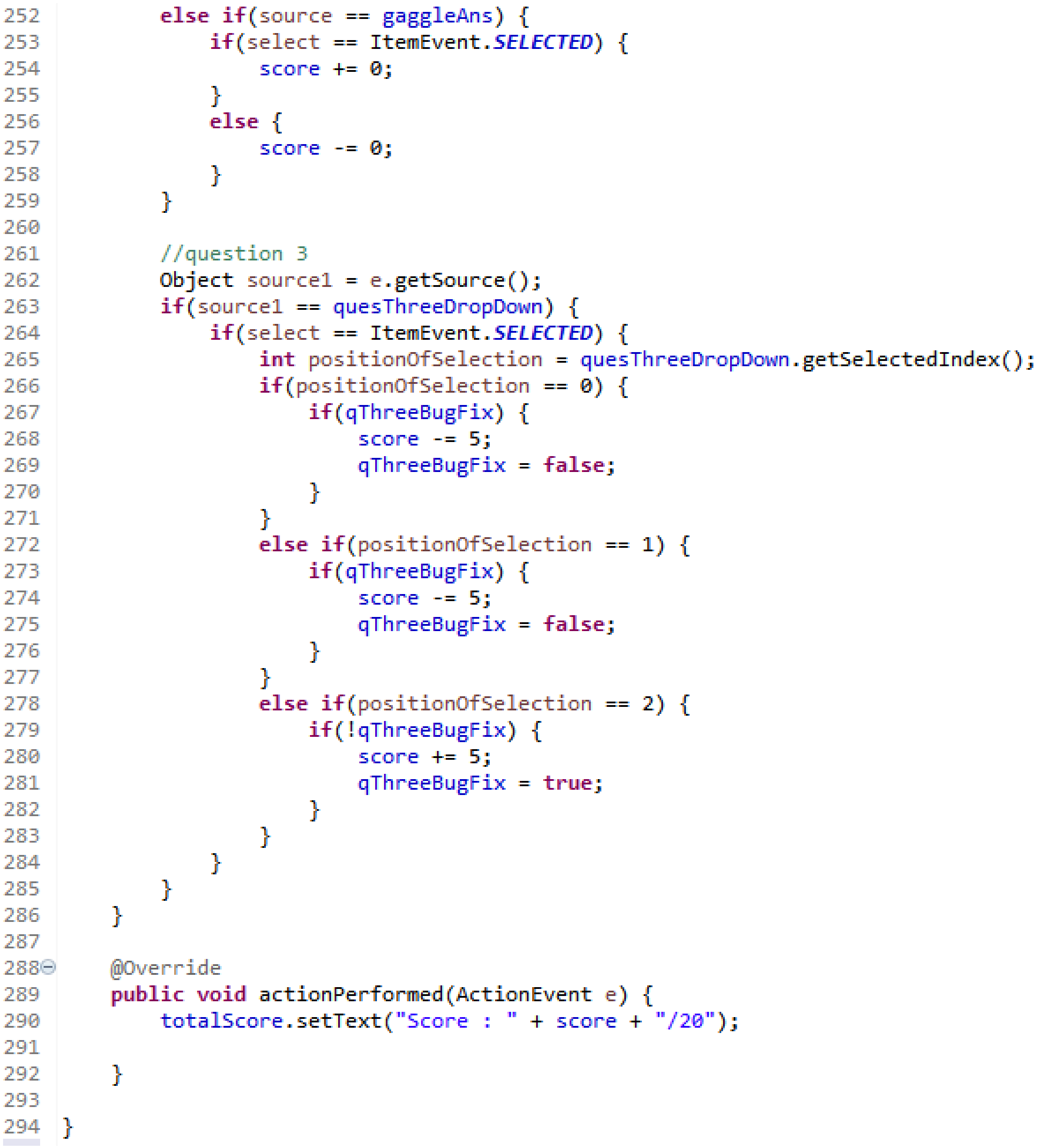
```java
        questionFour = new JLabel("4) Java classes are stored in a folder or");

        packetAns = new JCheckBox("Packet", false);
        packageAns = new JCheckBox("Package", false);
        bundleAns = new JCheckBox("Bundle", false);
        gaggleAns = new JCheckBox("Gaggle", false);

        ButtonGroup quesOneGroup = new ButtonGroup();
        ButtonGroup quesTwoGroup = new ButtonGroup();
        ButtonGroup quesFourGroup = new ButtonGroup();

        submission = new JButton("Submit");
        totalScore = new JLabel("Score :  /20");



        heading.setFont(new Font("Arial", Font.BOLD, 24));
        questionOne.setFont(new Font("Arial", Font.ITALIC, 16));
        questionTwo.setFont(new Font("Arial", Font.ITALIC, 14));
        questionThree.setFont(new Font("Arial", Font.ITALIC, 16));
        questionFour.setFont(new Font("Arial", Font.ITALIC,17));
        totalScore.setFont(new Font("Arial", Font.BOLD,28));

        setSize(FRAME_WIDTH, FRAME_HEIGHT);
        setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);

        submission.addActionListener(this);
        //question 1
        range.addItemListener(this);
        space.addItemListener(this);
        domain.addItemListener(this);
        scope.addItemListener(this);
        //question 2
        privAns.addItemListener(this);
        pubAns.addItemListener(this);
        staticAns.addItemListener(this);
        nonStaticAns.addItemListener(this);
        //question 3
        quesThreeDropDown.addItemListener(this);
        //question 4
        packetAns.addItemListener(this);
        packageAns.addItemListener(this);
        bundleAns.addItemListener(this);
        gaggleAns.addItemListener(this);

        quesOneGroup.add(range);
        quesOneGroup.add(space);
        quesOneGroup.add(domain);
        quesOneGroup.add(scope);

        quesTwoGroup.add(privAns);
        quesTwoGroup.add(pubAns);
        quesTwoGroup.add(staticAns);
        quesTwoGroup.add(nonStaticAns);

        quesFourGroup.add(packetAns);
        quesFourGroup.add(packageAns);
        quesFourGroup.add(bundleAns);
        quesFourGroup.add(gaggleAns);

        setLayout(new FlowLayout());
        add(heading);
```



```java
        //question 1
        add(questionOne);
        add(range);
        add(space);
        add(domain);
        add(scope);

        //question 2
        add(questionTwo);
        add(privAns);
        add(pubAns);
        add(staticAns);
        add(nonStaticAns);

        //question 3
        add(questionThree);
        add(quesThreeDropDown);

        //question 4
        add(questionFour);
        add(packetAns);
        add(packageAns);
        add(bundleAns);
        add(gaggleAns);

        add(submission);
        add(totalScore);

    }
    @Override
    public void itemStateChanged(ItemEvent e) {
        Object source = e.getItem();
        int select = e.getStateChange();

        //Question 1
        if(source == range) {
            if(select == ItemEvent.SELECTED) {
                score += 0;
            }
            else {
                score -= 0;
            }
        }
        else if(source == space) {
            if(select == ItemEvent.SELECTED) {
                score += 0;
            }
            else {
                score -= 0;
            }
        }
        else if(source == domain) {
            if(select == ItemEvent.SELECTED) {
                score += 0;
            }
            else {
                score -= 0;
            }
        }
        else if(source == scope) {
            if(select == ItemEvent.SELECTED) {
                score += 5;
            }
```



```java
            else {
                score -= 5;
            }
        }

        //Question 2
        else if(source == privAns) {
            if(select == ItemEvent.SELECTED) {
                score += 0;
            }
            else {
                score -= 0;
            }
        }
        else if(source == pubAns) {
            if(select == ItemEvent.SELECTED) {
                score += 0;
            }
            else {
                score -= 0;
            }
        }
        else if(source == staticAns) {
            if(select == ItemEvent.SELECTED) {
                score += 0;
            }
            else {
                score -= 0;
            }
        }
        else if(source == nonStaticAns) {
            if(select == ItemEvent.SELECTED) {
                score += 5;
            }
            else {
                score -= 5;
            }
        }
        //question 4
        else if(source == packetAns) {
            if(select == ItemEvent.SELECTED) {
                score += 0;
            }
            else {
                score -= 0;
            }
        }
        else if(source == packageAns) {
            if(select == ItemEvent.SELECTED) {
                score += 5;
            }
            else {
                score -= 5;
            }
        }
        else if(source == bundleAns) {
            if(select == ItemEvent.SELECTED) {
                score += 0;
            }
            else {
                score -= 0;
            }
        }
```



```java
        else if(source == gaggleAns) {
            if(select == ItemEvent.SELECTED) {
                score += 0;
            }
            else {
                score -= 0;
            }
        }

        //question 3
        Object source1 = e.getSource();
        if(source1 == quesThreeDropDown) {
            if(select == ItemEvent.SELECTED) {
                int positionOfSelection = quesThreeDropDown.getSelectedIndex();
                if(positionOfSelection == 0) {
                    if(qThreeBugFix) {
                        score -= 5;
                        qThreeBugFix = false;
                    }
                }
                else if(positionOfSelection == 1) {
                    if(qThreeBugFix) {
                        score -= 5;
                        qThreeBugFix = false;
                    }
                }
                else if(positionOfSelection == 2) {
                    if(!qThreeBugFix) {
                        score += 5;
                        qThreeBugFix = true;
                    }
                }
            }
        }
    }

    @Override
    public void actionPerformed(ActionEvent e) {
        totalScore.setText("Score : " + score + "/20");

    }

}
```