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Subject Code: OOP216D

Campus: South Campus

Group: C

Part 1:

Enter your UML class diagram in the space below.

tshetlho.tl.look.tshego1.Tshego1
- names: String - age: int - problem: String - price: double
+Tshego1() +Tshego1(String,int,String,double) +setNames(String):void +setAge(int):void +setProblem(String):void +setExplain(String):void +getNames():String +getAge():int +getProblem():String +getExplain():double +determinePrice():double

Paste the source code of your concrete class in the space below:

```
package tshetlho.tl.look;
```

```
public class Tshego1 {  
    private String names;
```

```
private int age;
private String problem;
private double price;

public Tshego1(){
}

public Tshego1(String names, int age, String problem, double price) {
    this.names = names;
    this.age = age;
    this.problem = problem;
    this.price = price;
}

public String getNames() {
    return names;
}

public void setNames(String names) {
    this.names = names;
}

public int getAge() {
    return age;
}

public void setAge(int age) {
    this.age = age;
}

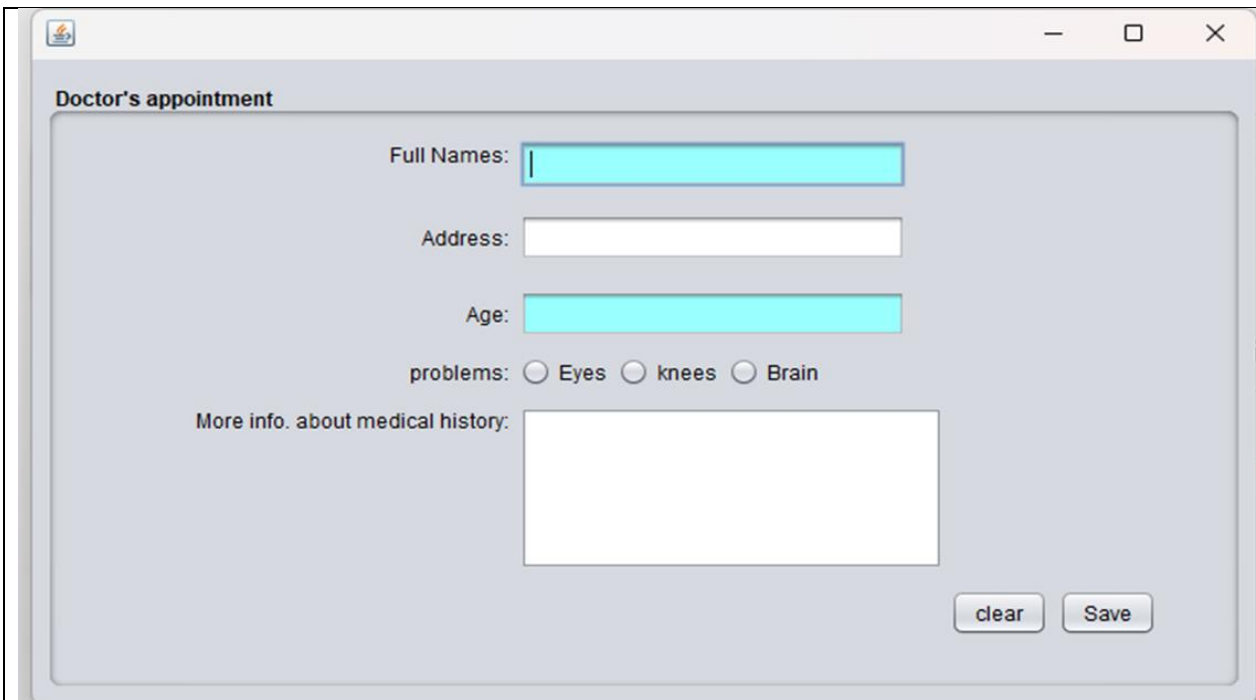
public String getProblem() {
    return problem;
}

public void setProblem(String problem) {
    this.problem = problem;
}
```

```
public double getExplain() {  
    return price;  
}  
  
public void setExplain(String explain) {  
    this.price = price;  
}  
public double determinePrice(String problem)  
{  
    price =0.0;  
  
    if(problem == "kneee")  
    {  
        price = 12000.00;  
  
    }  
    if(problem == "eye")  
    {  
        price = 120000.00;  
    }  
    if(problem == "brain")  
    {  
        price = 1000000.00;  
    }  
  
    return price;  
}  
}
```

Part 2:

Make a screenshot of your GUI and paste it in the space below:



Paste the source code of the GUI class in the space below:

```
Package tshetlho.tl.look;

import java.io.File;
import java.io.FileReader;
import java.io.FileWriter;
import java.io.BufferedWriter;
import javax.swing.JFileChooser;
import javax.swing.JOptionPane;
import java.io.IOException;
import java.io.PrintWriter;

/**
 *
 * @author tsheg
 */
```

```
public class Create extends javax.swing.JFrame {

    JFileChooser saveFileChoose;

    /**
     * Creates new form Create
     */
    public Create() {
        initComponents();

        saveFileChoose = new JFileChooser();
    }

    /**
     * This method is called from within the constructor to initialize the form.
     * WARNING: Do NOT modify this code. The content of this method is always
     * regenerated by the Form Editor.
     */
    @SuppressWarnings("unchecked")
    // <editor-fold defaultstate="collapsed" desc="Generated Code">
    private void initComponents() {

        jPanel1 = new javax.swing.JPanel();
        jLabel1 = new javax.swing.JLabel();
        fullNames = new javax.swing.JTextField();
        jLabel2 = new javax.swing.JLabel();
        age = new javax.swing.JTextField();
        save = new javax.swing.JButton();
        eye = new javax.swing.JRadioButton();
        knees = new javax.swing.JRadioButton();
        brain = new javax.swing.JRadioButton();
        problems = new javax.swing.JLabel();
        jButton1 = new javax.swing.JButton();
        jLabel3 = new javax.swing.JLabel();
        jScrollPane1 = new javax.swing.JScrollPane();

    }
}
```

```
description = new javax.swing.JTextArea();
jLabel4 = new javax.swing.JLabel();
address = new javax.swing.JTextField();

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

jPanel1.setBorder(javax.swing.BorderFactory.createTitledBorder("Doctor's appointment"));

jLabel1.setText("Full Names:");

fullNames.setBackground(new java.awt.Color(153, 255, 255));

jLabel2.setText("Age:");

age.setBackground(new java.awt.Color(153, 255, 255));

save.setText("Save");
save.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        saveActionPerformed(evt);
    }
});

eye.setText("Eyes");
eye.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        eyeActionPerformed(evt);
    }
});

knees.setText("knees");

brain.setText("Brain");

problems.setText("problems:");

jButton1.setText("clear");
```

```
jButton1.addActionListener(new java.awt.event.ActionListener() {  
    public void actionPerformed(java.awt.event.ActionEvent evt) {  
        jButton1ActionPerformed(evt);  
    }  
});  
  
jLabel3.setText("More info. about medical history:");  
  
description.setColumns(20);  
description.setRows(5);  
jScrollPane1.setViewportView(description);  
  
jLabel4.setText("Address:");  
  
address.setCaretColor(new java.awt.Color(102, 255, 255));  
address.setDisabledTextColor(new java.awt.Color(102, 255, 255));  
  
javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);  
jPanel1.setLayout(jPanel1Layout);  
jPanel1Layout.setHorizontalGroup(  
    jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
        .addGroup(jPanel1Layout.createSequentialGroup()  
            .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)  
                .addComponent(jLabel3, javax.swing.GroupLayout.Alignment.TRAILING)  
                .addComponent(jLabel1, javax.swing.GroupLayout.Alignment.TRAILING)  
                .addComponent(problems, javax.swing.GroupLayout.Alignment.TRAILING)  
                .addComponent(jLabel2, javax.swing.GroupLayout.Alignment.TRAILING)  
                .addComponent(jLabel4, javax.swing.GroupLayout.Alignment.TRAILING)  
            )  
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  
            .addComponent(address, javax.swing.GroupLayout.DEFAULT_SIZE, 178, Short.MAX_VALUE)  
        )  
);  
jPanel1Layout.setVerticalGroup(  
    jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
        .addGroup(jPanel1Layout.createSequentialGroup()  
            .addContainerGap()  
            .addComponent(jLabel3)  
            .addGap(16, 16, 16)  
            .addComponent(jLabel1)  
            .addGap(16, 16, 16)  
            .addComponent(problems)  
            .addGap(16, 16, 16)  
            .addComponent(jLabel2)  
            .addGap(16, 16, 16)  
            .addComponent(jLabel4)  
            .addGap(16, 16, 16)  
            .addComponent(address, javax.swing.GroupLayout.PREFERRED_SIZE, 40, Short.MAX_VALUE)  
        )  
);
```

```

        .addGroup(jPanel1Layout.createSequentialGroup())
        .addComponent(eye)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addComponent(knees)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addComponent(brain))
        .addComponent(address, javax.swing.GroupLayout.PREFERRED_SIZE, 217,
javax.swing.GroupLayout.PREFERRED_SIZE)

    .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING,
false)
        .addComponent(age, javax.swing.GroupLayout.Alignment.LEADING,
javax.swing.GroupLayout.DEFAULT_SIZE, 217, Short.MAX_VALUE)
        .addComponent(fullNames, javax.swing.GroupLayout.Alignment.LEADING))
        .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(156, 156, 156))
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel1Layout.createSequentialGroup()
        .addComponent(jButton1)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addComponent(save)
        .addGap(36, 36, 36))))
    );
    jPanel1Layout.setVerticalGroup(
        jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel1Layout.createSequentialGroup()
        .addContainerGap()

    .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jLabel1)
        .addComponent(fullNames, javax.swing.GroupLayout.Alignment.TRAILING,
javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(0, 16, Short.MAX_VALUE)

    .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

```



```

        .addComponent(jLabel4)
        .addComponent(address, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(18, 18, 18)

    .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(age, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jLabel2))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

    .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(eye)
        .addComponent(knees)
        .addComponent(brain)
        .addComponent(problems))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

    .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jLabel3)
        .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

    .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(jButton1)
        .addComponent(save))
        .addGap(22, 22, 22)
    );

    javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
    getContentPane().setLayout(layout);
    layout.setHorizontalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .add(layout.createSequentialGroup()
                    .addContainerGap()

```

```

        .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
    );
    layout.setVerticalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup())
        .addGap(15, 15, 15)
        .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
    );

    pack();
} // </editor-fold>

```

```

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    fullNames.setText("");
    age.setText("");
    address.setText("");
    eye.setSelected(false);
    knees.setSelected(false);
    brain.setSelected(false);
    description.setText("");
}

```

```

private void eyeActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
}

```

```

private void saveActionPerformed(java.awt.event.ActionEvent evt) {

    int returnValue = saveFileChooser.showSaveDialog(this);
}

```

```

//File fold = new File("attempt1.txt");
if (fullNames.getText().isEmpty() || age.getText().isEmpty() || description.getText().isEmpty())
{
    JOptionPane.showMessageDialog(null, "Please Enter all fields");

} else if (returnValue == JFileChooser.APPROVE_OPTION) {
    try {

        File save = saveFileChoose.getSelectedFile();
        PrintWriter outputPW = new PrintWriter(save);

        String name = fullNames.getText().trim();
        String age1 = age.getText();
        String des = description.getText().trim();
        String adre = address.getText().trim();

        String brains = "";

        if (brain.isSelected() == true ) {

            brains = "Problem is:"+brain.getText();

        }
        else if(eye.isSelected() == true)
        {
            brains = "Problem is:"+eye.getText();
        }
        else if(knees.isSelected() == true)
        {
            brains = "Problem is:"+knees.getText();
        }
        }else
        {
            brains = "\nSelect above the ones we provided";
        }
    }
}

```

```

    }

    String output = "";
    String output1 = "";

    output1 = "=====Here are your saved details=====\\n";
    output = "Name: " + name + "\\nYour address is as follows: "+adre+"\\n Your age is: " +
age1 +"\\n"+brains+"\\nYour medical history is: "+ des;
    String appointment = "Your appointment have been submitted succesfully";

    JOptionPane.showMessageDialog(null, output);
    JOptionPane.showMessageDialog(null, appointment);

    outputPW.write(output1);
    outputPW.write(output);

    outputPW.close();

    JOptionPane.showMessageDialog(null, "File found succesfully");

    } catch (IOException e) {
        JOptionPane.showMessageDialog(null, "Error writting file");
    }
    } else {
        JOptionPane.showMessageDialog(null, "no file choosen");
    }

}

/**
 * @param args the command line arguments
 */
public static void main(String args[]) {
    /* Set the Nimbus look and feel */
    //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">

```

```

/* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.
 * For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html
 */
try {
    for (javax.swing.UIManager.LookAndFeelInfo info :
        javax.swing.UIManager.getInstalledLookAndFeels()) {
        if ("Nimbus".equals(info.getName())) {
            javax.swing.UIManager.setLookAndFeel(info.getClassName());
            break;
        }
    }
} catch (ClassNotFoundException ex) {

java.util.logging.Logger.getLogger(Create.class.getName()).log(java.util.logging.Level.SEVERE, null,
ex);
    } catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(Create.class.getName()).log(java.util.logging.Level.SEVERE, null,
ex);
    } catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(Create.class.getName()).log(java.util.logging.Level.SEVERE, null,
ex);
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(Create.class.getName()).log(java.util.logging.Level.SEVERE, null,
ex);
    }
}
//</editor-fold>

/* Create and display the form */
java.awt.EventQueue.invokeLater(new Runnable() {
    public void run() {
        new Create().setVisible(true);
    }
});
}

```

```
// Variables declaration - do not modify
private javax.swing.JTextField address;
private javax.swing.JTextField age;
private javax.swing.JRadioButton brain;
private javax.swing.JTextArea description;
private javax.swing.JRadioButton eye;
private javax.swing.JTextField fullNames;
private javax.swing.JButton jButton1;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabel4;
private javax.swing.JPanel jPanel1;
private javax.swing.JScrollPane jScrollPane1;
private javax.swing.JRadioButton knees;
private javax.swing.JLabel problems;
private javax.swing.JButton save;
// End of variables declaration
}
```

Content of your text file used in the application:

```
=====Here are your saved details=====
Name: Tshgofatso Leah Tshetlho
Your address is as follows: Soshanguve VV 0631 Phetogo Street
Your age is: 23 K
Problem is: Eyes
Your medical history is: I went on few surgery because of the accident I had .
Now my eye is so swollen I can't see.
I think I have an infection.
```