Part 1:

Enter your UML class diagram in the space below.

Skosana.G.YoughurtClass
-flavour: String -quantity: String -litre: double -spoon: String
+ YoghurtClass () +YoghurtClass (String, String, double, String) +setFlavour (String): void +getFlavour (): String +setQuantity (String): void +getQuantity (): String +setLitre (double): void +getLitre (): double +setSpoon (String): void +getSpoon (): String +calcTotPrice (String, String, String): double

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

```
Package Skosana.G;

public class YoghourtClass {  private String flavour;  private String quantity;  private double price;
private String drink;
```

```java
public YoghourtClass() { flavour
= "CHOCOLATE";
//quantity = Integer.parseInt("1"); litre
=5.0;
}
public String getFlavour() { return
flavour;
}
public void setFlavour(String flavour) { this.flavour
= flavour;
}
 public String getQuantity() {
return quantity;
}
 public void setQuantity(String quantity) {
this.quantity = quantity;
}
public double getLitre() {
return litre;
}
public void setLitre(double litre) {
this.litre = litre;
}
public String getSpoon() { return
spoon;
}
public void setSpoon(String spoon) { this.spoon
= spoon;
}
public double calcTotPrice(String flavour, String quantity1, String spoon) {
double totPrice = 0.0;
int quantity = Integer.parseInt(quantity1);

if(flavour.equals("CHOCOLATE") && spoon.equals("NO")) { totPrice
= (120 * quantity) ;
}
else if(flavour.equals("VANILLA") && spoon.equals("NO")) { totPrice
= (100 * quantity); }

else if(flavour.equals("STRAWBERRY") &&spoon.equals("NO")) { totPrice
= (103 * quantity);
}
else if(flavour.equals("PEACH") && spoon.equals("NO")) { totPrice
= (115 * quantity );
}
```
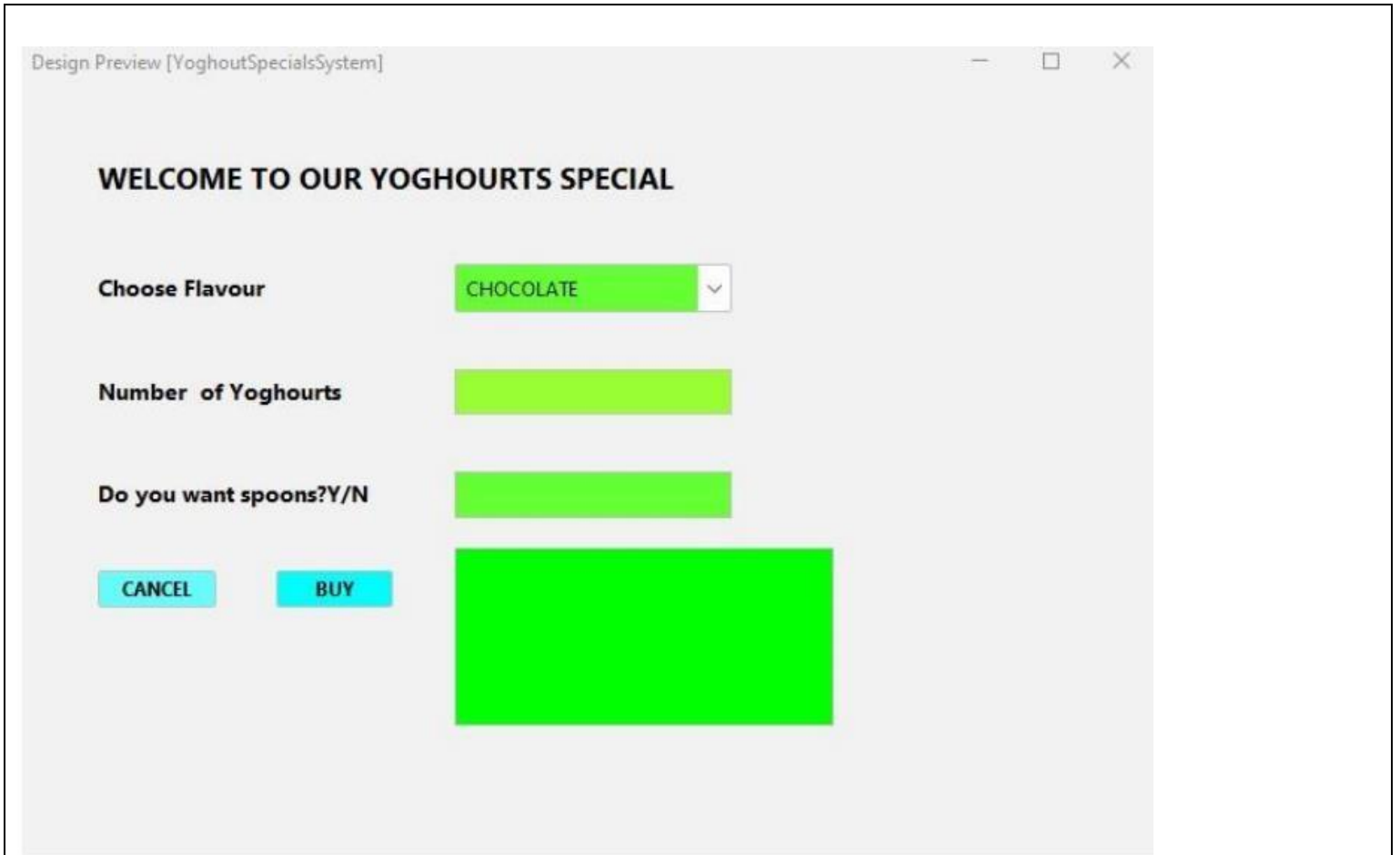
```
return totPrice;
 }
```

```
}
```

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 Skosana.G; import
java.util.Date; import
java.io.BufferedReader; import
java.io.BufferedWriter; import
java.io.FileReader; import
java.io.FileWriter;
import java.io.IOException;

public class YoghoutSpecialsSystem extends javax.swing.JFrame {
private String filePath = "yoghurt_sales.txt";
```

```java
    public YoghoutSpecialsSystem() {
        initComponents();
    }

    // Method to read data from a text file
private void readFromFile() {
        try (BufferedReader br = new BufferedReader(new FileReader(filePath))) {
            String line;
            while ((line = br.readLine()) != null) {
area.append(line + "\n");
            }
        } catch (IOException e) {
e.printStackTrace();
        }
    }

    // Method to write data to a text file
private void writeToFile(String data) {
        try (BufferedWriter bw = new BufferedWriter(new FileWriter(filePath, true))) {
bw.write(data);          bw.newLine();
        } catch (IOException e) {
e.printStackTrace();
        }
    }

    // Generated code from NetBeans GUI Builder
    private void initComponents() {
        // Your existing initComponents() method content here...
    }

    private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
// Your jButton1ActionPerformed() method content here...
    }

    private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
// Handle buy button action...
        String flavour = flavours.getSelectedItem().toString();
        String numYoghourts = quantity.getText();
        String spoon = jTextField1.getText();
MyYoughourt1 obj = new MyYoughourt1();
        double price = obj.calcTotPrice(flavour, numYoghourts, spoon);

        // Writing data to file
```

```
    writeToFile("**********************************************");
writeToFile("* Yoghourts Special System *");
    writeToFile("**********************************************");
```

```java
        Date date = new Date();        writeToFile(date.toString());
writeToFile("Choosen Flavour :" + flavours.getSelectedItem());
writeToFile("Number of yoghourts Ordered :" + quantity.getText());
writeToFile("Spoons :" + spoons.getText());        writeToFile("Total Price
:" + price);

        // Update UI
area.setText("");
        readFromFile();
    }

    // Your main() method should be placed here

    // Variables declaration - do not modify
private javax.swing.JTextArea area;
    private javax.swing.JComboBox<String> flavours;
private javax.swing.JButton jButton1;        private
javax.swing.JButton jButton2;        private
javax.swing.JLabel jLabel1;        private
javax.swing.JLabel jLabel2;        private
javax.swing.JLabel jLabel3;        private
javax.swing.JLabel jLabel4;        private
javax.swing.JScrollPane jScrollPane1;        private
javax.swing.JTextField jTextField1;        private
javax.swing.JTextField jTextField2;        private
javax.swing.JTextField quantity;        private
javax.swing.JTextField spoons;
    // End of variables declaration
}
```

Content of your text file used in the application:

```
Tue Apr 12 10:20:45 UTC 2024
Choosen Flavour :STRAWBERRY Ordered :5
Spoons :No
Total Price :90.0 Number of yoghourts ********************************************
* Yoghourts Special System *
*********************************************
Tue Apr 12 10:15:30 UTC 2024
Choosen Flavour :CHOCOLATE
Number of yoghourts Ordered :3
```

Spoons :Yes
Total Price :65.0
****
* Yoghourts Special System *
****