

Appendix

Source Code

Main.java

```
package pos;
```

```
import java.awt.EventQueue;
```

```
import java.sql.Connection;
```

```
import java.sql.SQLException;
```

```
public class Main {
```

```
    public static void main(String[] args){
```

```
        EventQueue.invokeLater(new Runnable() {
```

```
            public void run() {
```

```
                try {
```

```
                    GuiLogin window = new GuiLogin();
```

```
                    window.setVisible();
```

```
                } catch (Exception e) {
```

```
                    e.printStackTrace();
```

```
                }
```

```
            }
```

```
        });
```

```
    }
```

```
}
```

GuiLogin.java

```
package pos;
```

```
import java.awt.EventQueue;
```

```
import javax.swing.JFrame;
```

```
import java.awt.Color;
```

```
import javax.swing.JLabel;
```

```
import java.awt.BorderLayout;
```

```
import javax.swing.JPanel;
import java.awt.Font;
import javax.swing.border.EmptyBorder;
import javax.swing.BoxLayout;
import java.awt.Component;
import javax.swing.SwingConstants;
import javax.swing.JTextField;
import javax.swing.JButton;
import java.awt.event.FocusAdapter;
import java.awt.event.FocusEvent;
import javax.swing.JPasswordField;
import java.awt.event.MouseAdapter;
import java.awt.event.MouseEvent;
import java.awt.SystemColor;
import javax.swing.UIManager;

public class GuiLogin {

    private JFrame loginWindow;
    private JTextField txtLogin;
    private JPasswordField passwordField;

    public void setVisible() {
        loginWindow.setVisible(true);
    }

    public GuiLogin() {
        initialize();
    }

    private void initialize() {

        Database access = new Database();
```

```
loginWindow = new JFrame();
loginWindow.getContentPane().setForeground(Color.WHITE);
loginWindow.getContentPane().setBackground(new Color(51, 51, 51));
loginWindow.getContentPane().setLayout(null);
```

```
JLabel lblNewLabel = new JLabel("Welcome to the POS");
lblNewLabel.setBounds(6, 6, 586, 115);
lblNewLabel.setHorizontalAlignment(SwingConstants.CENTER);
lblNewLabel.setFont(new Font("Arial", Font.BOLD, 40));
lblNewLabel.setForeground(Color.WHITE);
loginWindow.getContentPane().add(lblNewLabel);
```

```
txtLogin = new JTextField();
txtLogin.setFont(new Font("Arial", Font.PLAIN, 15));
txtLogin.addFocusListener(new FocusAdapter() {
    @Override
    public void focusGained(FocusEvent e) {
        txtLogin.setText("");
    }
    @Override
    public void focusLost(FocusEvent e) {
        if(txtLogin.getText().isEmpty()) {
            txtLogin.setText("Login");
        }
    }
});
```

```
txtLogin.setText("Login");
txtLogin.setBounds(184, 218, 238, 39);
loginWindow.getContentPane().add(txtLogin);
txtLogin.setColumns(10);
```

```
passwordField = new JPasswordField();
passwordField.addFocusListener(new FocusAdapter() {
```

```

@Override
public void focusGained(FocusEvent e) {
    passwordField.setText("");
}
@Override
public void focusLost(FocusEvent e) {
    if(passwordField.getText().isEmpty()) {
        passwordField.setText("Haslo");
    }
}
});
passwordField.setText("Haslo");
passwordField.setFont(new Font("Arial", Font.PLAIN, 15));
passwordField.setBounds(184, 296, 238, 39);
loginWindow.getContentPane().add(passwordField);

```

```

JLabel lblNewLabel_1 = new JLabel("");
lblNewLabel_1.setFont(new Font("Arial", Font.PLAIN, 17));
lblNewLabel_1.setForeground(new Color(255, 0, 0));
lblNewLabel_1.setBounds(171, 373, 295, 39);

```

```

JButton btnNewButton = new JButton("Log in");
btnNewButton.setForeground(new Color(0, 0, 0));
btnNewButton.setFont(new Font("Arial", Font.BOLD, 20));
btnNewButton.setBackground(new Color(102, 102, 102));
btnNewButton.addMouseListener(new MouseAdapter() {
    @Override
    public void mouseClicked(MouseEvent e) {
        if(access.Access(txtLogin.getText(), passwordField.getText())
== true) {
            loginWindow.setVisible(false);
            EventQueue.invokeLater(new Runnable() {
                public void run() {
                    try {

```

```

        if(access.adm == true) {
            GuiMainAdm window = new
GuiMainAdm();

            window.setVisible();
        }else {
            GuiMainEmp window = new
GuiMainEmp();

            window.setVisible();
        }
    } catch (Exception e) {
        e.printStackTrace();
    }
}

});
} else {
    lblNewLabel_1.setText("Login error. Try again.");
}

}

});
btnNewButton.setBounds(184, 455, 238, 60);
loginWindow.getContentPane().add(btnNewButton);

JLabel lblZalogujSiZaby = new JLabel("Please log in to continue");
lblZalogujSiZaby.setHorizontalAlignment(SwingConstants.CENTER);
lblZalogujSiZaby.setForeground(Color.WHITE);
lblZalogujSiZaby.setFont(new Font("Arial", Font.BOLD, 25));
lblZalogujSiZaby.setBounds(6, 73, 586, 115);
loginWindow.getContentPane().add(lblZalogujSiZaby);

loginWindow.getContentPane().add(lblNewLabel_1);
loginWindow.setResizable(false);
loginWindow.setTitle("Astra POS v1.0");
loginWindow.setBackground(new Color(51, 51, 51));

```

```
        loginWindow.setSize(600,618);
        loginWindow.setLocationRelativeTo(null);
        loginWindow.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
    }
}
```

GuiMainAdm.java

```
package pos;
```

```
import java.awt.EventQueue;
```

```
import javax.swing.JFrame;
```

```
import java.awt.Color;
```

```
import javax.swing.JPanel;
```

```
import javax.swing.JButton;
```

```
import java.awt.BorderLayout;
```

```
import javax.swing.JDesktopPane;
```

```
import javax.swing.JLabel;
```

```
import javax.swing.JTextField;
```

```
import java.awt.event.ActionListener;
```

```
import java.awt.event.ActionEvent;
```

```
import java.awt.Font;
```

```
import javax.swing.JTextArea;
```

```
public class GuiMainAdm {
```

```
    private JFrame mainWindow;
```

```
    private JTextField textField;
```

```
    static Double sum = 0.0;
```

```
    public void setVisible() {
```

```
        mainWindow.setVisible(true);
```

```
    }
```

```
    public void CloseFrame() {
```

```

        mainWindow.dispose();
    }
    public GuiMainAdm() {
        initialize();
    }

    private void initialize() {

        Database database = new Database();

        mainWindow = new JFrame();
        mainWindow.setTitle("Astra POS v1.0");
        mainWindow.getContentPane().setForeground(Color.WHITE);
        mainWindow.getContentPane().setBackground(Color.BLACK);
        mainWindow.getContentPane().setLayout(new BorderLayout(0, 0));

        JDesktopPane desktopPane = new JDesktopPane();
        desktopPane.setBackground(Color.BLACK);
        mainWindow.getContentPane().add(desktopPane, BorderLayout.CENTER);

        JPanel panel = new JPanel();
        panel.setBackground(Color.GRAY);
        panel.setBounds(807, 6, 187, 460);
        desktopPane.add(panel);
        panel.setLayout(null);

        JButton btnNewButton_3 = new JButton("Manage accounts");
        btnNewButton_3.setFont(new Font("Arial", Font.PLAIN, 15));
        btnNewButton_3.addActionListener(new ActionListener() {
            public void actionPerformed(ActionEvent e) {
                mainWindow.dispose();
            }
        });
    }

```

```

       .EventQueue.invokeLater(new Runnable() {
            public void run() {
                try {
                    GuiAccounts window = new
GuiAccounts();

                    window.setVisible();
                } catch (Exception e) {
                    e.printStackTrace();
                }
            }
        });

    }

});

btnNewButton_3.setBounds(6, 167, 175, 65);
panel.add(btnNewButton_3);

JButton btnNewButton_4 = new JButton("Log out");
btnNewButton_4.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
        mainWindow.dispose();
        database.logout();
        EventQueue.invokeLater(new Runnable() {
            public void run() {
                try {
                    GuiLogin window = new GuiLogin();
                    window.setVisible();
                } catch (Exception e) {
                    e.printStackTrace();
                }
            }
        });
    }
});

```



```

    });

    }

});
btnNewButton_4.setFont(new Font("Arial", Font.PLAIN, 15));
btnNewButton_4.setBounds(6, 244, 175, 65);
panel.add(btnNewButton_4);

JButton btnEndDay = new JButton("End Day");
btnEndDay.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
        EventQueue.invokeLater(new Runnable() {
            public void run() {
                try {
                    mainWindow.dispose();
                    count window = new count();
                    window.setVisible();
                } catch (Exception e) {
                    e.printStackTrace();
                }
            }
        });
    }

});

btnEndDay.setFont(new Font("Arial", Font.PLAIN, 15));
btnEndDay.setBounds(6, 90, 175, 65);
panel.add(btnEndDay);

JPanel panel_1 = new JPanel();
panel_1.setLayout(null);
panel_1.setBackground(Color.GRAY);
panel_1.setBounds(10, 316, 789, 150);
desktopPane.add(panel_1);

```

```
textField = new JTextField();
textField.setFont(new Font("Arial", Font.PLAIN, 15));
textField.setBounds(6, 47, 777, 71);
panel_1.add(textField);
textField.setColumns(10);
```

```
JLabel lblNewLabel_1 = new JLabel("Scan the barcode:");
lblNewLabel_1.setForeground(Color.BLACK);
lblNewLabel_1.setFont(new Font("Arial", Font.BOLD, 20));
lblNewLabel_1.setBounds(6, 6, 211, 41);
panel_1.add(lblNewLabel_1);
```

```
JPanel panel_2 = new JPanel();
panel_2.setLayout(null);
panel_2.setBackground(Color.WHITE);
panel_2.setBounds(10, 11, 785, 293);
desktopPane.add(panel_2);
```

```
JLabel lblNewLabel = new JLabel("Zalogowano jako:");
lblNewLabel.setText("Logged as: "+database.Display());
lblNewLabel.setBackground(new Color(102, 102, 102));
lblNewLabel.setFont(new Font("Arial", Font.PLAIN, 20));
lblNewLabel.setBounds(6, 6, 773, 38);
panel_2.add(lblNewLabel);
```

```
JTextArea textArea = new JTextArea();
textArea.setFont(new Font("Arial", Font.PLAIN, 17));
textArea.setEditable(false);
textArea.setBounds(16, 56, 505, 204);
panel_2.add(textArea);
```

```
JTextArea textArea_1 = new JTextArea();
textArea_1.setEditable(false);
textArea_1.setFont(new Font("Arial", Font.PLAIN, 17));
textArea_1.setBounds(662, 56, 117, 204);
panel_2.add(textArea_1);
```

```
JLabel lblNewLabel_2 = new JLabel("");
lblNewLabel_2.setFont(new Font("Arial", Font.PLAIN, 15));
lblNewLabel_2.setBounds(662, 257, 85, 30);
panel_2.add(lblNewLabel_2);
```

```
JLabel lblNewLabel_2_1 = new JLabel("Sum:");
lblNewLabel_2_1.setFont(new Font("Arial", Font.PLAIN, 15));
lblNewLabel_2_1.setBounds(611, 257, 49, 30);
panel_2.add(lblNewLabel_2_1);
```

```
JButton btnNewButton_1 = new JButton("Add Product");
btnNewButton_1.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
        textArea.append(database.barScanner(textField.getText())
```

```
+"\n");
```

```
textArea_1.append(String.valueOf(database.getPrice(textField.getText())+ " zł\n"));
        sum = sum + (database.getPrice(textField.getText()));
        lblNewLabel_2.setText(String.valueOf(sum) + " zł");
        textField.setText(null);
    }
}
```

```
});
```

```
btnNewButton_1.setBounds(600, 6, 158, 38);
panel_1.add(btnNewButton_1);
```

```
JButton btnNewButton = new JButton("Finalize Transaction");
btnNewButton.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
```

```

        EventQueue.invokeLater(new Runnable() {
            public void run() {
                try {
                    Finalize window = new Finalize();
                    window.setVisible();
                } catch (Exception e) {
                    e.printStackTrace();
                }
            }
        });
        textArea.setText(null);
        textArea_1.setText(null);
    }
});
btnNewButton.setFont(new Font("Arial", Font.PLAIN, 15));
btnNewButton.setBounds(6, 6, 175, 65);
panel.add(btnNewButton);

mainWindow.setResizable(false);
mainWindow.setSize(1000,500);
mainWindow.setDefaultCloseOperation(JFrame.DISPOSE_ON_CLOSE);
mainWindow.setLocationRelativeTo(null);

```

```

    }

```

```

}

```

GuiMainEmp.java

```

package pos;

```

```

import java.awt.EventQueue;

```

```

import javax.swing.JFrame;

```

```

import java.awt.Color;

```

```

import javax.swing.JPanel;

```

```

import javax.swing.JTextArea;

```

```
import javax.swing.JButton;
import javax.swing.JLayeredPane;
import java.awt.BorderLayout;
import javax.swing.JDesktopPane;
import javax.swing.JLabel;
import javax.swing.JTextField;
import java.awt.event.ActionListener;
import java.awt.event.ActionEvent;
import java.awt.Font;

public class GuiMainEmp{

    private JFrame mainWindow;
    private JTextField textField;
    static Double sum = 0.0;

    public void setVisible() {
        mainWindow.setVisible(true);
    }

    public void CloseFrame() {
        mainWindow.dispose();
    }

    public GuiMainEmp() {
        initialize();
    }

    private void initialize() {

        Database database = new Database();

        mainWindow = new JFrame();
        mainWindow.setTitle("Astra POS v1.0");
```

```
mainWindow.getContentPane().setForeground(Color.WHITE);
mainWindow.getContentPane().setBackground(Color.BLACK);
mainWindow.getContentPane().setLayout(new BorderLayout(0, 0));
```

```
JDesktopPane desktopPane = new JDesktopPane();
desktopPane.setBackground(Color.BLACK);
mainWindow.getContentPane().add(desktopPane, BorderLayout.CENTER);
```

```
JPanel panel = new JPanel();
panel.setBackground(Color.GRAY);
panel.setBounds(807, 6, 187, 460);
desktopPane.add(panel);
panel.setLayout(null);
```

```
JButton btnNewButton_4 = new JButton("Log out");
btnNewButton_4.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
        mainWindow.dispose();
        database.logOut();
        EventQueue.invokeLater(new Runnable() {
            public void run() {
                try {
                    GuiLogin window = new GuiLogin();
                    window.setVisible();
                } catch (Exception e) {
                    e.printStackTrace();
                }
            }
        });
    }
});

}
```

```

});
btnNewButton_4.setFont(new Font("Arial", Font.PLAIN, 15));
btnNewButton_4.setBounds(6, 244, 175, 65);
panel.add(btnNewButton_4);

JButton btnEndDay = new JButton("End Day");
btnEndDay.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
        EventQueue.invokeLater(new Runnable() {
            public void run() {
                try {
                    mainWindow.dispose();
                    count2 window = new count2();
                    window.setVisible();
                } catch (Exception e) {
                    e.printStackTrace();
                }
            }
        });
    }
});

btnEndDay.setFont(new Font("Arial", Font.PLAIN, 15));
btnEndDay.setBounds(6, 90, 175, 65);
panel.add(btnEndDay);

JPanel panel_1 = new JPanel();
panel_1.setLayout(null);
panel_1.setBackground(Color.GRAY);
panel_1.setBounds(10, 316, 789, 150);
desktopPane.add(panel_1);

textField = new JTextField();
textField.setFont(new Font("Arial", Font.PLAIN, 15));

```

```
textField.setBounds(6, 47, 777, 71);  
panel_1.add(textField);  
textField.setColumns(10);
```

```
JLabel lblNewLabel_1 = new JLabel("Scan the barcode:");  
lblNewLabel_1.setForeground(Color.BLACK);  
lblNewLabel_1.setFont(new Font("Arial", Font.BOLD, 20));  
lblNewLabel_1.setBounds(6, 6, 211, 41);  
panel_1.add(lblNewLabel_1);
```

```
JPanel panel_2 = new JPanel();  
panel_2.setLayout(null);  
panel_2.setBackground(Color.WHITE);  
panel_2.setBounds(10, 11, 785, 293);  
desktopPane.add(panel_2);
```

```
JLabel lblNewLabel = new JLabel("Zalogowano jako:");  
lblNewLabel.setText("Logged as: "+database.Display());  
lblNewLabel.setBackground(new Color(102, 102, 102));  
lblNewLabel.setFont(new Font("Arial", Font.PLAIN, 20));  
lblNewLabel.setBounds(6, 6, 773, 38);  
panel_2.add(lblNewLabel);
```

```
JTextArea textArea = new JTextArea();  
textArea.setFont(new Font("Arial", Font.PLAIN, 17));  
textArea.setEditable(false);  
textArea.setBounds(16, 56, 505, 204);  
panel_2.add(textArea);
```

```
JTextArea textArea_1 = new JTextArea();  
textArea_1.setEditable(false);  
textArea_1.setFont(new Font("Arial", Font.PLAIN, 17));  
textArea_1.setBounds(662, 56, 117, 204);
```



```

        window.setVisible();
    } catch (Exception e) {
        e.printStackTrace();
    }
}

});
textArea.setText(null);
textArea_1.setText(null);
}

});
btnNewButton.setFont(new Font("Arial", Font.PLAIN, 15));
btnNewButton.setBounds(6, 6, 175, 65);
panel.add(btnNewButton);

mainWindow.setResizable(false);
mainWindow.setSize(1000,500);
mainWindow.setDefaultCloseOperation(JFrame.DISPOSE_ON_CLOSE);
mainWindow.setLocationRelativeTo(null);

```

```

}

```

```

}

```

GuiAccounts.java

```

package pos;

```

```

import java.awt.EventQueue;

```

```

import javax.swing.JFrame;

```

```

import java.awt.Color;

```

```

import javax.swing.JPanel;

```

```

import javax.swing.JButton;

```

```

import javax.swing.JLayeredPane;

```

```

import java.awt.BorderLayout;

```

```

import javax.swing.JDesktopPane;

```

```

import javax.swing.JLabel;

```

```
import javax.swing.JTextField;
import javax.swing.table.DefaultTableModel;

import java.awt.event.ActionListener;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.Statement;
import java.awt.event.ActionEvent;
import java.awt.Font;
import javax.swing.JTable;
import javax.swing.JComboBox;
import javax.swing.JList;
import javax.swing.JTextPane;
import javax.swing.SwingConstants;
import javax.swing.JTextArea;

public class GuiAccounts {

    private JFrame mainWindow;
    private JTable table_1;
    String[] columnNames = new String[4];
    String[] gap = new String[4];
    String[] row1 = new String[4];
    String[] row2 = new String[4];
    String[] row3 = new String[4];
    String[] row4 = new String[4];
    String[] row5 = new String[4];

    public void setVisible() {
        mainWindow.setVisible(true);
    }

    public void CloseFrame() {
        mainWindow.dispose();
    }
}
```

```

public GuiAccounts() {
    initialize();
}

private void initialize() {

    Database database = new Database();

    listAccount list = new listAccount();

    mainWindow = new JFrame();
    mainWindow.setTitle("Astra POS v1.0");
    mainWindow.getContentPane().setForeground(Color.WHITE);
    mainWindow.getContentPane().setBackground(Color.BLACK);
    mainWindow.getContentPane().setLayout(new BorderLayout(0, 0));

    JDesktopPane desktopPane = new JDesktopPane();
    desktopPane.setBackground(Color.BLACK);
    mainWindow.getContentPane().add(desktopPane, BorderLayout.CENTER);

    JPanel panel = new JPanel();
    panel.setBackground(Color.GRAY);
    panel.setBounds(807, 6, 187, 328);
    desktopPane.add(panel);
    panel.setLayout(null);

    JButton btnNewButton = new JButton("Add account");
    btnNewButton.addActionListener(new ActionListener() {
        public void actionPerformed(ActionEvent e) {
            EventQueue.invokeLater(new Runnable() {
                public void run() {
                    try {
                        addAccount window = new addAccount();
                        window.setVisible();
                    } catch (Exception ex) {
                        ex.printStackTrace();
                    }
                }
            });
        }
    });
}

```

```

        } catch (Exception e) {
            e.printStackTrace();
        }
    }
});

}

});

btnNewButton.setFont(new Font("Arial", Font.PLAIN, 15));
btnNewButton.setBounds(6, 37, 175, 65);
panel.add(btnNewButton);

JButton btnAsortyment = new JButton("Delete account");
btnAsortyment.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
        EventQueue.invokeLater(new Runnable() {
            public void run() {
                try {
                    delAccount window = new delAccount();
                    window.setVisible();
                } catch (Exception e) {
                    e.printStackTrace();
                }
            }
        });
    }
});

btnAsortyment.setFont(new Font("Arial", Font.PLAIN, 15));
btnAsortyment.setBounds(6, 114, 175, 65);
panel.add(btnAsortyment);

JButton btnNewButton_3 = new JButton("Back");
btnNewButton_3.setFont(new Font("Arial", Font.PLAIN, 15));
btnNewButton_3.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
        CloseFrame();
    }
});

```

```

       .EventQueue.invokeLater(new Runnable() {
            public void run() {
                try {
                    GuiMainAdm window = new
GuiMainAdm();

                    window.setVisible();
                } catch (Exception e) {
                    e.printStackTrace();
                }
            }
        });

        btnNewButton_3.setBounds(6, 191, 175, 65);
        panel.add(btnNewButton_3);

        JPanel panel_2 = new JPanel();
        panel_2.setLayout(null);
        panel_2.setBackground(new Color(255, 255, 255));
        panel_2.setBounds(10, 11, 785, 323);
        desktopPane.add(panel_2);

        JLabel lblNewLabel = new JLabel("List of Accounts");
        lblNewLabel.setHorizontalAlignment(SwingConstants.CENTER);
        lblNewLabel.setFont(new Font("Arial", Font.BOLD, 20));
        lblNewLabel.setBounds(6, 6, 773, 26);
        panel_2.add(lblNewLabel);

        String[] columnNames = {"", "Surname", "Name", "Login", "Account type"};
        String[] gap = {"", "", "", "", ""};
        String[][] data = {
            {"", "Surname", "Name", "Login", "Account type"},
            {"", "", "", "", ""},

```

```
 {"1.",list.listSurname(1),list.listName(1),list.listLogin(1),list.listType(1)},  
      {"", "", "", "", ""},
```

```
 {"2.",list.listSurname(2),list.listName(2),list.listLogin(2),list.listType(2)},  
      {"", "", "", "", ""},
```

```
 {"3.",list.listSurname(3),list.listName(3),list.listLogin(3),list.listType(3)},  
      {"", "", "", "", ""},
```

```
 {"4.",list.listSurname(4),list.listName(4),list.listLogin(4),list.listType(4)},  
      };
```

```
    table_1 = new JTable(data,columnNames);  
    table_1.setRowHeight(20);  
    table_1.setFont(new Font("Arial", Font.PLAIN, 20));  
    table_1.setBounds(16, 44, 763, 238);  
    panel_2.add(table_1);
```

```
    mainWindow.setResizable(false);  
    mainWindow.setSize(1000,375);  
    mainWindow.setDefaultCloseOperation(JFrame.DISPOSE_ON_CLOSE);  
    mainWindow.setLocationRelativeTo(null);
```

```
    }
```

```
}
```

```
listAccount.java
```

```
package pos;
```

```
import java.sql.*;
```

```
import java.util.ArrayList;
```

```
import java.util.Vector;
```

```

import javax.swing.*;
import javax.swing.table.DefaultTableModel;

public class listAccount {

    public String listName(int i) {
        String name = null;
        Connection conn = null;
        ResultSet rs = null;
        try {
            Class.forName("org.postgresql.Driver");
            conn = DriverManager.getConnection("jdbc:postgresql://localhost:5432/pos1", "postgres", "admin");
        } catch (Exception e) {
            System.out.print(e);
        }

        try {
            Statement st = conn.createStatement();
            String sql = ("SELECT name FROM logowanie where id = "+ i);
            rs = st.executeQuery(sql);

            while(rs.next()) {
                name = rs.getString("name");
            }

        } catch (Exception e) {

        }

        finally {
            try {
                rs.close();
            } catch (SQLException e) {
                e.printStackTrace();
            }
        }
    }
}

```



```

        try {
            conn.close();
        } catch (SQLException e) {
            e.printStackTrace();
        } finally {
            try {
                rs.close();
            } catch (SQLException e) {
                e.printStackTrace();
            }
            try {
                conn.close();
            } catch (SQLException e) {
                e.printStackTrace();
            }
        }
    }
}

```

```

}

```

```

    return name;
}

```

```

public String listSurname(int i) {
    String surname = null;
    Connection conn = null;
    ResultSet rs = null;
    try {
        Class.forName("org.postgresql.Driver");
        conn = DriverManager.getConnection("jdbc:postgresql://localhost:5432/pos1", "postgres", "admin");
    } catch (Exception e) {
        System.out.print(e);
    }
}

```

```

try {
    Statement st = conn.createStatement();
    String sql = ("SELECT surname FROM logowanie where id = " + i);
    rs = st.executeQuery(sql);

    while(rs.next()) {
        surname = rs.getString("surname");
    }

} catch(Exception e) {

}finally {
    try {
        rs.close();
    } catch (SQLException e) {
        e.printStackTrace();
    }
    try {
        conn.close();
    } catch (SQLException e) {
        e.printStackTrace();
    }
}
return surname;
}

public String listLogin(int i) {
    String login = null;
    Connection conn = null;
    ResultSet rs = null;
    try {
        Class.forName("org.postgresql.Driver");
        conn = DriverManager.getConnection("jdbc:postgresql://localhost:5432/pos1", "postgres", "admin");

```

```

        } catch (Exception e) {
System.out.print(e);
        }

        try {
            Statement st = conn.createStatement();
            String sql = ("SELECT login FROM logowanie where id = " + i);
            rs = st.executeQuery(sql);

            while(rs.next()) {
                login = rs.getString("login");
            }

        } catch (Exception e) {

        } finally {
            try {
                rs.close();
            } catch (SQLException e) {
                e.printStackTrace();
            }
            try {
                conn.close();
            } catch (SQLException e) {
                e.printStackTrace();
            }
        }

        return login;
    }

    public String listType(int i) {
        String type = "";
        Connection conn = null;
        ResultSet rs = null;
        try {

```

```

        Class.forName("org.postgresql.Driver");
        conn = DriverManager.getConnection("jdbc:postgresql://localhost:5432/
pos1", "postgres", "admin");
    } catch (Exception e) {
        System.out.print(e);
    }

    try {
        Statement st = conn.createStatement();
        String sql = ("SELECT adminmode FROM logowanie where id = " + i);
        rs = st.executeQuery(sql);

        while(rs.next()) {
            if(rs.getBoolean("adminmode") == true) {
                type = "Admin";
            } else {
                type = "User";
            }
        }
    }

} catch (Exception e) {

} finally {
    try {
        rs.close();
    } catch (SQLException e) {
        e.printStackTrace();
    }
    try {
        conn.close();
    } catch (SQLException e) {
        e.printStackTrace();
    }
}
}

```

```

        return type;
    }
}

addAccount.java
package pos;

import java.awt.EventQueue;

import javax.swing.JFrame;
import java.awt.Color;
import javax.swing.JLabel;
import java.awt.Font;
import javax.swing.JTextField;
import javax.swing.JButton;
import javax.swing.JToggleButton;
import javax.swing.JPasswordField;
import java.awt.event.ActionListener;
import java.awt.event.ActionEvent;

public class addAccount {

    private JFrame frmAstraPosV;
    private JTextField textField;
    private JTextField textField_1;
    private JTextField textField_2;
    private JPasswordField passwordField;

    public addAccount() {
        initialize();
    }

    public void setVisible() {
        frmAstraPosV.setVisible(true);
    }

```

```
}
```

```
private void initialize() {  
    Database database = new Database();  
    frmAstraPosV = new JFrame();  
    frmAstraPosV.setTitle("Astra POS v1.0");  
    frmAstraPosV.setResizable(false);  
    frmAstraPosV.getContentPane().setBackground(new Color(51, 51, 51));  
    frmAstraPosV.getContentPane().setLayout(null);  
  
    JLabel lblNewLabel = new JLabel("Name");  
    lblNewLabel.setForeground(Color.WHITE);  
    lblNewLabel.setFont(new Font("Arial", Font.PLAIN, 15));  
    lblNewLabel.setBounds(16, 18, 129, 33);  
    frmAstraPosV.getContentPane().add(lblNewLabel);  
  
    JLabel lblNazwisko = new JLabel("Surname");  
    lblNazwisko.setForeground(Color.WHITE);  
    lblNazwisko.setFont(new Font("Arial", Font.PLAIN, 15));  
    lblNazwisko.setBounds(16, 52, 129, 33);  
    frmAstraPosV.getContentPane().add(lblNazwisko);  
  
    JLabel lblLogin = new JLabel("Login");  
    lblLogin.setForeground(Color.WHITE);  
    lblLogin.setFont(new Font("Arial", Font.PLAIN, 15));  
    lblLogin.setBounds(16, 97, 129, 33);  
    frmAstraPosV.getContentPane().add(lblLogin);  
  
    JLabel lblHaso = new JLabel("Password");  
    lblHaso.setForeground(Color.WHITE);  
    lblHaso.setFont(new Font("Arial", Font.PLAIN, 15));  
    lblHaso.setBounds(16, 142, 129, 33);  
    frmAstraPosV.getContentPane().add(lblHaso);  
}
```

```
JLabel lblTypKonta = new JLabel("Account type");
lblTypKonta.setForeground(Color.WHITE);
lblTypKonta.setFont(new Font("Arial", Font.PLAIN, 15));
lblTypKonta.setBounds(16, 187, 129, 33);
frmAstraPosV.getContentPane().add(lblTypKonta);
```

```
textField = new JTextField();
textField.setBounds(157, 21, 287, 26);
frmAstraPosV.getContentPane().add(textField);
textField.setColumns(10);
```

```
textField_1 = new JTextField();
textField_1.setColumns(10);
textField_1.setBounds(157, 55, 287, 26);
frmAstraPosV.getContentPane().add(textField_1);
```

```
textField_2 = new JTextField();
textField_2.setColumns(10);
textField_2.setBounds(157, 100, 287, 26);
frmAstraPosV.getContentPane().add(textField_2);
```

```
JToggleButton tglbtnNewToggleButton = new JToggleButton("Admin");
tglbtnNewToggleButton.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
    }
});
tglbtnNewToggleButton.setFont(new Font("Arial", Font.PLAIN, 15));
tglbtnNewToggleButton.setBounds(213, 190, 161, 29);
frmAstraPosV.getContentPane().add(tglbtnNewToggleButton);
```

```
passwordField = new JPasswordField();
passwordField.setBounds(157, 145, 287, 26);
```

```
JButton btnNewButton = new JButton("Create");
btnNewButton.addActionListener(new ActionListener() {
```

```

        public void actionPerformed(ActionEvent e) {
            boolean b = false;
            if(tglBtnNewToggleButton.isSelected() == true) {
                b = true;
            }
            database.addAccount(textField_2.getText(),
passwordField.getText(), textField.getText(), textField_1.getText(), b);
            frmAstraPosV.dispose();
        }
    });
    btnNewButton.setFont(new Font("Arial", Font.PLAIN, 15));
    btnNewButton.setBounds(157, 228, 117, 29);
    frmAstraPosV.getContentPane().add(btnNewButton);

    frmAstraPosV.getContentPane().add(passwordField);
    frmAstraPosV.setBounds(100, 100, 450, 300);
    frmAstraPosV.setLocationRelativeTo(null);
    frmAstraPosV.setDefaultCloseOperation(JFrame.DISPOSE_ON_CLOSE);
}
}

```

delAccount.java

package pos;

import java.awt.EventQueue;

import javax.swing.JFrame;

import java.awt.Color;

import javax.swing.JLabel;

import java.awt.Font;

import javax.swing.JTextField;

import javax.swing.JButton;

import java.awt.event.ActionListener;

import java.awt.event.ActionEvent;


```
public class delAccount {

    private JFrame frmAstraPosV;
    private JTextField textField;

    public delAccount() {
        initialize();
    }

    public void setVisible() {
        frmAstraPosV.setVisible(true);
    }

    private void initialize() {
        Database database = new Database();
        frmAstraPosV = new JFrame();
        frmAstraPosV.setTitle("Astra POS v1.0");
        frmAstraPosV.setResizable(false);
        frmAstraPosV.getContentPane().setBackground(new Color(51, 51, 51));
        frmAstraPosV.getContentPane().setLayout(null);

        JButton btnNewButton = new JButton("Delete");
        btnNewButton.addActionListener(new ActionListener() {
            public void actionPerformed(ActionEvent e) {
                database.delAccount(textField.getText());
                frmAstraPosV.dispose();
            }
        });
        btnNewButton.setFont(new Font("Arial", Font.PLAIN, 15));
        btnNewButton.setBounds(160, 60, 117, 29);
        frmAstraPosV.getContentPane().add(btnNewButton);
    }
}
```

```

JLabel lblNewLabel = new JLabel("Login:");
lblNewLabel.setForeground(new Color(255, 255, 255));
lblNewLabel.setFont(new Font("Arial", Font.PLAIN, 15));
lblNewLabel.setBounds(43, 25, 68, 29);
frmAstraPosV.getContentPane().add(lblNewLabel);

textField = new JTextField();
textField.setFont(new Font("Arial", Font.PLAIN, 15));
textField.setBounds(122, 26, 251, 26);
frmAstraPosV.getContentPane().add(textField);
textField.setColumns(10);
frmAstraPosV.setBounds(100, 100, 381, 128);
frmAstraPosV.setLocationRelativeTo(null);
frmAstraPosV.setDefaultCloseOperation(JFrame.DISPOSE_ON_CLOSE);

```

```

}

```

```

}

```

Database.java

```

package pos;

```

```

import java.sql.*;

```

```

public class Database {

```

```

    boolean adm = false;

```

```

    boolean check = false;

```

```

    int id = 2;

```

```

    public boolean Access(String linput, String pinput) {

```

```

        Connection conn = null;

```

```

        ResultSet rs = null;

```

```

        try {

```

```

            Class.forName("org.postgresql.Driver");

```

```

            conn = DriverManager.getConnection("jdbc:postgresql://localhost:5432/pos1", "postgres", "admin");

```

```

        }catch(Exception e) {
System.out.print(e);

        }

        try {
            Statement st = conn.createStatement();
            String sql = ("SELECT login, password, adminMode, logged FROM
logowanie");

            rs = st.executeQuery(sql);

            while(rs.next()) {
                String l = rs.getString("login");
                String p = rs.getString("password");
                adm = rs.getBoolean("adminMode");

                if((linput.equals(l) && pinput.equals(p)) {
                    st.executeUpdate("UPDATE logowanie SET logged =
true WHERE login ='"+ l +"'");
                    check = true;
                }
            }
        }catch (SQLException e) {

            System.out.print(e);
        }finally {
            try {
                rs.close();
            } catch (SQLException e) {
                e.printStackTrace();
            }
            try {
                conn.close();
            } catch (SQLException e) {

```

```

        e.printStackTrace();
    }

    }

    return check;
}

public void logOut() {
    Connection conn = null;
    try {
        Class.forName("org.postgresql.Driver");
        conn = DriverManager.getConnection("jdbc:postgresql://localhost:5432/pos1", "postgres", "admin");
    } catch (Exception e) {
        System.out.print(e);
    }

    try {
        Statement st = conn.createStatement();
        String sql = ("SELECT logged FROM logowanie");
        ResultSet rs = st.executeQuery(sql);
        while(rs.next()) {
            st.executeUpdate("UPDATE logowanie SET logged = false
WHERE logged = true");
        }
    } catch (Exception e) {
    }
}

public String Display() {
    String display = null;
    Connection conn = null;
    ResultSet rs = null;
    try {
        Class.forName("org.postgresql.Driver");

```

```

        conn = DriverManager.getConnection("jdbc:postgresql://localhost:5432/
pos1", "postgres", "admin");
    } catch (Exception e) {
        System.out.print(e);

    }

    try {
        Statement st = conn.createStatement();
        String sql = ("SELECT name, surname FROM logowanie WHERE
logged = true");
        rs = st.executeQuery(sql);

        while(rs.next()) {
            String name = rs.getString("name");
            String surname = rs.getString("surname");
            display = surname + " " + name;
        }
    } catch (Exception e) {
        System.out.print(e);
    } finally {
        try {
            rs.close();
        } catch (SQLException e) {
            e.printStackTrace();
        }
        try {
            conn.close();
        } catch (SQLException e) {
            e.printStackTrace();
        }
    }

    return display;
}

```

```

public void addAccount(String log, String pas, String name, String sur, boolean ad)
{
    Connection conn = null;
    try {
        Class.forName("org.postgresql.Driver");
        conn = DriverManager.getConnection("jdbc:postgresql://localhost:5432/
pos1", "postgres", "admin");
    } catch (Exception e) {
        System.out.print(e);
    }

    try {
        id=id+1;
        Statement st = conn.createStatement();

        st.executeUpdate("INSERT into logowanie (login, password,
adminmode, name, surname, logged, id) VALUES ('"+log+"', '"+pas+"', "+ad+",
 '"+name+"', '"+ sur +"', "+false+", "+id+)");

    } catch (Exception e) {

    } finally {
        try {
            conn.close();
        } catch (SQLException e) {
            e.printStackTrace();
        }
    }
}

```

```

public void delAccount(String log) {
    Connection conn = null;
    try {
        Class.forName("org.postgresql.Driver");
        conn = DriverManager.getConnection("jdbc:postgresql://localhost:5432/
pos1", "postgres", "admin");
    } catch (Exception e) {
        System.out.print(e);
    }

    try {
        id=id-1;
        Statement st = conn.createStatement();
        st.executeUpdate("DELETE FROM logowanie WHERE login
='"+log+"'");
    } catch (Exception e) {

    } finally {
        try {
            conn.close();
        } catch (SQLException e) {
            e.printStackTrace();
        }
    }
}

```

```

public String barScanner(String n) {
    String bar = null;
    Connection conn = null;
    ResultSet rs = null;
    int i = -1;

```

```

        try {
            Class.forName("org.postgresql.Driver");
            conn = DriverManager.getConnection("jdbc:postgresql://localhost:5432/
pos1", "postgres", "admin");
        } catch (Exception e) {
            System.out.print(e);
        }

        try {
            Statement st = conn.createStatement();
            String sql = ("SELECT productname, amount FROM stock WHERE
barcode='"+n+"'");
            rs = st.executeQuery(sql);

            while(rs.next()) {
                bar = rs.getString("productname");
                st.executeUpdate("UPDATE stock SET amount = amount + "+ i
+ "WHERE barcode = '"+n+"'");
            }
        } catch (Exception e) {

        } finally {
            try {
                conn.close();
            } catch (SQLException e) {
                e.printStackTrace();
            }
        }

        return bar;
    }

    public Double getPrice(String n) {

```



```

double bar = 0;
Connection conn = null;
ResultSet rs = null;
try {
    Class.forName("org.postgresql.Driver");
    conn = DriverManager.getConnection("jdbc:postgresql://localhost:5432/
pos1", "postgres", "admin");
} catch (Exception e) {
    System.out.print(e);

}

try {
    Statement st = conn.createStatement();
    String sql = ("SELECT price FROM stock WHERE barcode ='" + n + "'");
    rs = st.executeQuery(sql);

    while(rs.next()) {
        bar = rs.getDouble("price");
    }
} catch (Exception e) {

} finally {
    try {
        conn.close();
    } catch (SQLException e) {
        e.printStackTrace();
    }
}

return bar;

```

```
}
```

```
public void cash(Double sum) {  
    Connection conn = null;  
    try {  
        Class.forName("org.postgresql.Driver");  
        conn = DriverManager.getConnection("jdbc:postgresql://localhost:5432/  
pos1", "postgres", "admin");  
    } catch (Exception e) {  
        System.out.print(e);  
    }  
  
    try {  
        Statement st = conn.createStatement();  
        String sql = ("SELECT cash FROM payment");  
        ResultSet rs = st.executeQuery(sql);  
        while(rs.next()) {  
            st.executeUpdate("UPDATE payment SET cash = cash  
+"+sum+" WHERE id = 1");  
        }  
    } catch (Exception e) {  
    }  
}
```

```
public void card(Double sum) {  
    Connection conn = null;  
    try {  
        Class.forName("org.postgresql.Driver");  
        conn = DriverManager.getConnection("jdbc:postgresql://localhost:5432/  
pos1", "postgres", "admin");  
    } catch (Exception e) {  
        System.out.print(e);  
    }  
  
    try {
```

```

        Statement st = conn.createStatement();
        String sql = ("SELECT card FROM payment");
        ResultSet rs = st.executeQuery(sql);
        while(rs.next()) {
            st.executeUpdate("UPDATE payment SET card = card
+ "+sum+" WHERE id = 1");
        }
    }catch(Exception e) {
    }
}

```

```

public Double checkCash(Double sum) {
    Double diff = 0.0;
    Connection conn = null;
    try {
        Class.forName("org.postgresql.Driver");
        conn = DriverManager.getConnection("jdbc:postgresql://localhost:5432/
pos1", "postgres", "admin");
    }catch(Exception e) {
        System.out.print(e);
    }

    try {
        Statement st = conn.createStatement();
        String sql = ("SELECT cash FROM payment");
        ResultSet rs = st.executeQuery(sql);
        while(rs.next()) {
            diff = sum - rs.getDouble("cash");
        }
    }catch(Exception e) {
    }
    return diff;
}

```

```

public Double checkCard(Double sum) {

```

```

        Double diff = 0.0;
        Connection conn = null;
        try {
            Class.forName("org.postgresql.Driver");
            conn = DriverManager.getConnection("jdbc:postgresql://localhost:5432/
pos1", "postgres", "admin");
        } catch (Exception e) {
            System.out.print(e);
        }

        try {
            Statement st = conn.createStatement();
            String sql = ("SELECT card FROM payment");
            ResultSet rs = st.executeQuery(sql);
            while(rs.next()) {
                diff = sum - rs.getDouble("card");
            }
        } catch (Exception e) {
        }
        return diff;
    }

    public void zeroCash() {
        Connection conn = null;
        try {
            Class.forName("org.postgresql.Driver");
            conn = DriverManager.getConnection("jdbc:postgresql://localhost:5432/
pos1", "postgres", "admin");
        } catch (Exception e) {
            System.out.print(e);
        }

        try {
            Statement st = conn.createStatement();
            String sql = ("SELECT cash FROM payment");
            ResultSet rs = st.executeQuery(sql);

```

```

        while(rs.next()) {
            st.executeUpdate("UPDATE payment SET cash = 0 WHERE id
= 1");
        }
    }catch(Exception e) {
    }
}

public void zeroCard() {
    Connection conn = null;
    try {
        Class.forName("org.postgresql.Driver");
        conn = DriverManager.getConnection("jdbc:postgresql://localhost:5432/
pos1", "postgres", "admin");
    }catch(Exception e) {
        System.out.print(e);
    }

    try {
        Statement st = conn.createStatement();
        String sql = ("SELECT card FROM payment");
        ResultSet rs = st.executeQuery(sql);
        while(rs.next()) {
            st.executeUpdate("UPDATE payment SET card = 0 WHERE id
= 1");
        }
    }catch(Exception e) {
    }
}
}

```

}
 Finalize.java
 package pos;

import java.awt.EventQueue;

```
import javax.swing.JFrame;
import java.awt.Color;
import javax.swing.JButton;
import java.awt.event.ActionListener;
import java.awt.event.ActionEvent;

public class Finalize {

    private JFrame frame;

    public Finalize() {
        initialize();
    }

    public void setVisible() {
        frame.setVisible(true);
    }

    private void initialize() {

        Database database = new Database();

        frame = new JFrame();
        frame.getContentPane().setBackground(new Color(51, 51, 51));
        frame.getContentPane().setLayout(null);

        JButton btnNewButton = new JButton("Card");
        btnNewButton.addActionListener(new ActionListener() {
            public void actionPerformed(ActionEvent e) {
                database.card(GuiMainAdm.sum);
                GuiMainAdm.sum = 0.0;
                frame.dispose();
            }
        });
        btnNewButton.setBounds(237, 31, 219, 96);
```

```
frame.getContentPane().add(btnNewButton);
```

```
JButton btnCash = new JButton("Cash");
```

```
btnCash.addActionListener(new ActionListener() {  
    public void actionPerformed(ActionEvent e) {  
        database.cash(GuiMainAdm.sum);  
        GuiMainAdm.sum = 0.0;  
        frame.dispose();  
    }  
});
```

```
btnCash.setBounds(6, 31, 219, 96);
```

```
frame.getContentPane().add(btnCash);
```

```
frame.setResizable(false);
```

```
frame.setBounds(100, 100, 460, 202);
```

```
frame.setDefaultCloseOperation(JFrame.DISPOSE_ON_CLOSE);
```

```
frame.setLocationRelativeTo(null);
```

```
}
```

```
}
```

```
Finalize2.java
```

```
package pos;
```

```
import java.awt.EventQueue;
```

```
import javax.swing.JFrame;
```

```
import java.awt.Color;
```

```
import javax.swing.JButton;
```

```
import java.awt.event.ActionListener;
```

```
import java.awt.event.ActionEvent;
```

```
public class Finalize2 {
```

```
    private JFrame frame;
```

```
    public Finalize2() {
```

```

        initialize();
    }

    public void setVisible() {
        frame.setVisible(true);
    }

    private void initialize() {

        Database database = new Database();

        frame = new JFrame();
        frame.getContentPane().setBackground(new Color(51, 51, 51));
        frame.getContentPane().setLayout(null);

        JButton btnNewButton = new JButton("Card");
        btnNewButton.addActionListener(new ActionListener() {
            public void actionPerformed(ActionEvent e) {
                database.card(GuiMainEmp.sum);
                GuiMainEmp.sum = 0.0;
                frame.dispose();
            }
        });
        btnNewButton.setBounds(237, 31, 219, 96);
        frame.getContentPane().add(btnNewButton);

        JButton btnCash = new JButton("Cash");
        btnCash.addActionListener(new ActionListener() {
            public void actionPerformed(ActionEvent e) {
                database.cash(GuiMainEmp.sum);
                GuiMainEmp.sum = 0.0;
                frame.dispose();
            }
        });
        btnCash.setBounds(6, 31, 219, 96);
    }

```



```
        frame.getContentPane().add(btnCash);
        frame.setResizable(false);
        frame.setBounds(100, 100, 460, 202);
        frame.setDefaultCloseOperation(JFrame.DISPOSE_ON_CLOSE);
        frame.setLocationRelativeTo(null);
    }
```

```
}
```

count.java

```
package pos;
```

```
import java.awt.EventQueue;
```

```
import javax.swing.JFrame;
```

```
import java.awt.Color;
```

```
import javax.swing.JLabel;
```

```
import java.awt.Font;
```

```
import javax.swing.JTextField;
```

```
import javax.swing.JButton;
```

```
import java.awt.event.ActionListener;
```

```
import java.awt.event.ActionEvent;
```

```
public class count {
```

```
    private JFrame frame;
```

```
    private JTextField textField;
```

```
    private JTextField textField_1;
```

```
    private JTextField textField_2;
```

```
    private JTextField textField_3;
```

```
    private JTextField textField_4;
```

```
    private JTextField textField_5;
```

```
    private JTextField textField_6;
```

```
    private JTextField textField_7;
```

```
    private JTextField textField_8;
```

```
    private JTextField textField_9;
```

```
private JTextField textField_10;
private JTextField textField_11;
private JTextField textField_12;
private JTextField textField_13;
private JTextField textField_14;
private JTextField textField_15;
Double cash = 0.0;
Double card = 0.0;
```

```
public void setVisible() {
    frame.setVisible(true);
}
```

```
public count() {
    initialize();
}
```

```
private void initialize() {
    Database database = new Database();
    frame = new JFrame();
    frame.getContentPane().setBackground(new Color(51, 51, 51));
    frame.getContentPane().setLayout(null);

    JLabel lblNewLabel = new JLabel("500");
    lblNewLabel.setForeground(new Color(255, 255, 255));
    lblNewLabel.setFont(new Font("Arial", Font.PLAIN, 17));
    lblNewLabel.setBounds(132, 53, 42, 33);
    frame.getContentPane().add(lblNewLabel);

    JLabel lblNewLabel_1 = new JLabel("200");
    lblNewLabel_1.setForeground(new Color(255, 255, 255));
    lblNewLabel_1.setFont(new Font("Arial", Font.PLAIN, 17));
    lblNewLabel_1.setBounds(271, 53, 50, 33);
    frame.getContentPane().add(lblNewLabel_1);
}
```

```
JLabel lblNewLabel_2 = new JLabel("100");
lblNewLabel_2.setForeground(new Color(255, 255, 255));
lblNewLabel_2.setFont(new Font("Arial", Font.PLAIN, 17));
lblNewLabel_2.setBounds(410, 53, 50, 33);
frame.getContentPane().add(lblNewLabel_2);
```

```
JLabel lblNewLabel_3 = new JLabel("50");
lblNewLabel_3.setForeground(new Color(255, 255, 255));
lblNewLabel_3.setFont(new Font("Arial", Font.PLAIN, 17));
lblNewLabel_3.setBounds(549, 53, 33, 33);
frame.getContentPane().add(lblNewLabel_3);
```

```
JLabel lblNewLabel_1_1 = new JLabel("20");
lblNewLabel_1_1.setForeground(new Color(255, 255, 255));
lblNewLabel_1_1.setFont(new Font("Arial", Font.PLAIN, 17));
lblNewLabel_1_1.setBounds(669, 53, 42, 33);
frame.getContentPane().add(lblNewLabel_1_1);
```

```
JLabel lblNewLabel_2_1 = new JLabel("10");
lblNewLabel_2_1.setForeground(new Color(255, 255, 255));
lblNewLabel_2_1.setFont(new Font("Arial", Font.PLAIN, 17));
lblNewLabel_2_1.setBounds(132, 98, 42, 33);
frame.getContentPane().add(lblNewLabel_2_1);
```

```
JLabel lblNewLabel_4 = new JLabel("5");
lblNewLabel_4.setForeground(new Color(255, 255, 255));
lblNewLabel_4.setFont(new Font("Arial", Font.PLAIN, 17));
lblNewLabel_4.setBounds(271, 98, 42, 33);
frame.getContentPane().add(lblNewLabel_4);
```

```
JLabel lblNewLabel_1_2 = new JLabel("2");
lblNewLabel_1_2.setForeground(new Color(255, 255, 255));
lblNewLabel_1_2.setFont(new Font("Arial", Font.PLAIN, 17));
lblNewLabel_1_2.setBounds(410, 98, 33, 33);
```

```
frame.getContentPane().add(lblNewLabel_1_2);
```

```
JLabel lblNewLabel_2_2 = new JLabel("1");  
lblNewLabel_2_2.setForeground(new Color(255, 255, 255));  
lblNewLabel_2_2.setFont(new Font("Arial", Font.PLAIN, 17));  
lblNewLabel_2_2.setBounds(549, 98, 33, 33);  
frame.getContentPane().add(lblNewLabel_2_2);
```

```
JLabel lblNewLabel_5 = new JLabel("0.50");  
lblNewLabel_5.setForeground(new Color(255, 255, 255));  
lblNewLabel_5.setFont(new Font("Arial", Font.PLAIN, 17));  
lblNewLabel_5.setBounds(669, 98, 50, 33);  
frame.getContentPane().add(lblNewLabel_5);
```

```
JLabel lblNewLabel_1_3 = new JLabel("0.20");  
lblNewLabel_1_3.setForeground(new Color(255, 255, 255));  
lblNewLabel_1_3.setFont(new Font("Arial", Font.PLAIN, 17));  
lblNewLabel_1_3.setBounds(132, 143, 42, 33);  
frame.getContentPane().add(lblNewLabel_1_3);
```

```
JLabel lblNewLabel_2_3 = new JLabel("0.10");  
lblNewLabel_2_3.setForeground(new Color(255, 255, 255));  
lblNewLabel_2_3.setFont(new Font("Arial", Font.PLAIN, 17));  
lblNewLabel_2_3.setBounds(271, 143, 50, 33);  
frame.getContentPane().add(lblNewLabel_2_3);
```

```
JLabel lblNewLabel_5_1 = new JLabel("0.05");  
lblNewLabel_5_1.setForeground(Color.WHITE);  
lblNewLabel_5_1.setFont(new Font("Arial", Font.PLAIN, 17));  
lblNewLabel_5_1.setBounds(410, 143, 50, 33);  
frame.getContentPane().add(lblNewLabel_5_1);
```

```
JLabel lblNewLabel_5_2 = new JLabel("0.02");  
lblNewLabel_5_2.setForeground(Color.WHITE);  
lblNewLabel_5_2.setFont(new Font("Arial", Font.PLAIN, 17));
```

```
lblNewLabel_5_2.setBounds(536, 143, 46, 33);  
frame.getContentPane().add(lblNewLabel_5_2);
```

```
JLabel lblNewLabel_5_3 = new JLabel("0.01");  
lblNewLabel_5_3.setForeground(Color.WHITE);  
lblNewLabel_5_3.setFont(new Font("Arial", Font.PLAIN, 17));  
lblNewLabel_5_3.setBounds(669, 143, 50, 33);  
frame.getContentPane().add(lblNewLabel_5_3);
```

```
textField = new JTextField();  
textField.setBounds(166, 57, 60, 26);  
frame.getContentPane().add(textField);  
textField.setColumns(10);
```

```
textField_1 = new JTextField();  
textField_1.setColumns(10);  
textField_1.setBounds(312, 57, 60, 26);  
frame.getContentPane().add(textField_1);
```

```
textField_2 = new JTextField();  
textField_2.setColumns(10);  
textField_2.setBounds(448, 57, 60, 26);  
frame.getContentPane().add(textField_2);
```

```
textField_3 = new JTextField();  
textField_3.setColumns(10);  
textField_3.setBounds(582, 57, 60, 26);  
frame.getContentPane().add(textField_3);
```

```
textField_4 = new JTextField();  
textField_4.setColumns(10);  
textField_4.setBounds(703, 57, 60, 26);  
frame.getContentPane().add(textField_4);
```

```
textField_5 = new JTextField();
```

```
textField_5.setColumns(10);  
textField_5.setBounds(166, 102, 60, 26);  
frame.getContentPane().add(textField_5);
```

```
textField_6 = new JTextField();  
textField_6.setColumns(10);  
textField_6.setBounds(312, 98, 60, 26);  
frame.getContentPane().add(textField_6);
```

```
textField_7 = new JTextField();  
textField_7.setColumns(10);  
textField_7.setBounds(448, 98, 60, 26);  
frame.getContentPane().add(textField_7);
```

```
textField_8 = new JTextField();  
textField_8.setColumns(10);  
textField_8.setBounds(582, 102, 60, 26);  
frame.getContentPane().add(textField_8);
```

```
textField_9 = new JTextField();  
textField_9.setColumns(10);  
textField_9.setBounds(703, 102, 60, 26);  
frame.getContentPane().add(textField_9);
```

```
textField_10 = new JTextField();  
textField_10.setColumns(10);  
textField_10.setBounds(166, 147, 60, 26);  
frame.getContentPane().add(textField_10);
```

```
textField_11 = new JTextField();  
textField_11.setColumns(10);  
textField_11.setBounds(312, 147, 60, 26);  
frame.getContentPane().add(textField_11);
```

```
textField_12 = new JTextField();
```

```
textField_12.setColumns(10);  
textField_12.setBounds(448, 143, 60, 26);  
frame.getContentPane().add(textField_12);
```

```
textField_13 = new JTextField();  
textField_13.setColumns(10);  
textField_13.setBounds(582, 143, 60, 26);  
frame.getContentPane().add(textField_13);
```

```
textField_14 = new JTextField();  
textField_14.setColumns(10);  
textField_14.setBounds(703, 147, 60, 26);  
frame.getContentPane().add(textField_14);
```

```
JLabel lblCard = new JLabel("Card");  
lblCard.setForeground(Color.WHITE);  
lblCard.setFont(new Font("Arial", Font.PLAIN, 17));  
lblCard.setBounds(383, 251, 60, 33);  
frame.getContentPane().add(lblCard);
```

```
textField_15 = new JTextField();  
textField_15.setBounds(448, 255, 130, 26);  
frame.getContentPane().add(textField_15);  
textField_15.setColumns(10);
```

```
JLabel lblCashDifference = new JLabel("Cash difference:");  
lblCashDifference.setForeground(Color.WHITE);  
lblCashDifference.setFont(new Font("Arial", Font.PLAIN, 17));  
lblCashDifference.setBounds(313, 296, 130, 33);  
frame.getContentPane().add(lblCashDifference);
```

```
JLabel lblCardDifference = new JLabel("Card difference:");  
lblCardDifference.setForeground(Color.WHITE);
```

```
lblCardDifference.setFont(new Font("Arial", Font.PLAIN, 17));
lblCardDifference.setBounds(313, 341, 130, 33);
frame.getContentPane().add(lblCardDifference);
```

```
JLabel lblCashDifference_1 = new JLabel("");
lblCashDifference_1.setForeground(Color.WHITE);
lblCashDifference_1.setFont(new Font("Arial", Font.PLAIN, 17));
lblCashDifference_1.setBounds(448, 296, 130, 33);
frame.getContentPane().add(lblCashDifference_1);
```

```
JLabel lblCashDifference_2 = new JLabel("");
lblCashDifference_2.setForeground(Color.WHITE);
lblCashDifference_2.setFont(new Font("Arial", Font.PLAIN, 17));
lblCashDifference_2.setBounds(448, 341, 130, 33);
```

```
JButton btnNewButton = new JButton("Calculate");
btnNewButton.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
        cash = countCash();
    }
});
```

```
lblCashDifference_1.setText(Double.toString(database.checkCash(cash)));
```

```
lblCashDifference_2.setText(Double.toString(database.checkCard(Double.parseDouble(textField_15.getText()))));
```

```
    }
});
btnNewButton.setFont(new Font("Arial", Font.PLAIN, 15));
btnNewButton.setBounds(312, 402, 117, 29);
frame.getContentPane().add(btnNewButton);
```

```
JButton btnBack = new JButton("Back");
btnBack.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
```



```

        database.zeroCard();
        database.zeroCash();
        frame.dispose();
        EventQueue.invokeLater(new Runnable() {
            public void run() {
                try {
                    GuiMainAdm window = new
GuiMainAdm();

                    window.setVisible();
                } catch (Exception e) {
                    e.printStackTrace();
                }
            }
        });
    }

});

btnBack.setFont(new Font("Arial", Font.PLAIN, 15));
btnBack.setBounds(465, 402, 117, 29);
frame.getContentPane().add(btnBack);

frame.getContentPane().add(lblCashDifference_2);
frame.setResizable(false);
frame.setSize(1000,500);
frame.setDefaultCloseOperation(JFrame.DISPOSE_ON_CLOSE);
frame.setLocationRelativeTo(null);
}

public Double countCash() {
    Double d = 0.0;
    d = (Double.parseDouble(textField.getText())*500) +
(Double.parseDouble(textField_1.getText())*200)
        + (Double.parseDouble(textField_2.getText())*100) +
(Double.parseDouble(textField_3.getText())*50)
        + (Double.parseDouble(textField_4.getText())*20) +
(Double.parseDouble(textField_5.getText())*10)

```

```

        + (Double.parseDouble(textField_6.getText())*5)+
(Double.parseDouble(textField_7.getText())*2) +
(Double.parseDouble(textField_8.getText())*1)
        +(Double.parseDouble(textField_9.getText())*0.5) +
(Double.parseDouble(textField_10.getText())*0.2) +
(Double.parseDouble(textField_11.getText())*0.1)
        + (Double.parseDouble(textField_12.getText())*0.05) +
(Double.parseDouble(textField_13.getText())*0.02) +
(Double.parseDouble(textField_14.getText())*0.01);
        return d;
    }
}

```

```

}

```

```

count2.java

```

```

package pos;

```

```

import java.awt.EventQueue;

```

```

import javax.swing.JFrame;

```

```

import java.awt.Color;

```

```

import javax.swing.JLabel;

```

```

import java.awt.Font;

```

```

import javax.swing.JTextField;

```

```

import javax.swing.JButton;

```

```

import java.awt.event.ActionListener;

```

```

import java.awt.event.ActionEvent;

```

```

public class count2 {

```

```

    private JFrame frame;

```

```

    private JTextField textField;

```

```

    private JTextField textField_1;

```

```

    private JTextField textField_2;

```

```

    private JTextField textField_3;

```

```

    private JTextField textField_4;

```

```
private JTextField textField_5;
private JTextField textField_6;
private JTextField textField_7;
private JTextField textField_8;
private JTextField textField_9;
private JTextField textField_10;
private JTextField textField_11;
private JTextField textField_12;
private JTextField textField_13;
private JTextField textField_14;
private JTextField textField_15;
Double cash = 0.0;
Double card = 0.0;
```

```
public void setVisible() {
    frame.setVisible(true);
}
```

```
public count2() {
    initialize();
}
```

```
private void initialize() {
    Database database = new Database();
    frame = new JFrame();
    frame.getContentPane().setBackground(new Color(51, 51, 51));
    frame.getContentPane().setLayout(null);

    JLabel lblNewLabel = new JLabel("500");
    lblNewLabel.setForeground(new Color(255, 255, 255));
    lblNewLabel.setFont(new Font("Arial", Font.PLAIN, 17));
    lblNewLabel.setBounds(132, 53, 42, 33);
    frame.getContentPane().add(lblNewLabel);
}
```

```
JLabel lblNewLabel_1 = new JLabel("200");  
lblNewLabel_1.setForeground(new Color(255, 255, 255));  
lblNewLabel_1.setFont(new Font("Arial", Font.PLAIN, 17));  
lblNewLabel_1.setBounds(271, 53, 50, 33);  
frame.getContentPane().add(lblNewLabel_1);
```

```
JLabel lblNewLabel_2 = new JLabel("100");  
lblNewLabel_2.setForeground(new Color(255, 255, 255));  
lblNewLabel_2.setFont(new Font("Arial", Font.PLAIN, 17));  
lblNewLabel_2.setBounds(410, 53, 50, 33);  
frame.getContentPane().add(lblNewLabel_2);
```

```
JLabel lblNewLabel_3 = new JLabel("50");  
lblNewLabel_3.setForeground(new Color(255, 255, 255));  
lblNewLabel_3.setFont(new Font("Arial", Font.PLAIN, 17));  
lblNewLabel_3.setBounds(549, 53, 33, 33);  
frame.getContentPane().add(lblNewLabel_3);
```

```
JLabel lblNewLabel_1_1 = new JLabel("20");  
lblNewLabel_1_1.setForeground(new Color(255, 255, 255));  
lblNewLabel_1_1.setFont(new Font("Arial", Font.PLAIN, 17));  
lblNewLabel_1_1.setBounds(669, 53, 42, 33);  
frame.getContentPane().add(lblNewLabel_1_1);
```

```
JLabel lblNewLabel_2_1 = new JLabel("10");  
lblNewLabel_2_1.setForeground(new Color(255, 255, 255));  
lblNewLabel_2_1.setFont(new Font("Arial", Font.PLAIN, 17));  
lblNewLabel_2_1.setBounds(132, 98, 42, 33);  
frame.getContentPane().add(lblNewLabel_2_1);
```

```
JLabel lblNewLabel_4 = new JLabel("5");  
lblNewLabel_4.setForeground(new Color(255, 255, 255));  
lblNewLabel_4.setFont(new Font("Arial", Font.PLAIN, 17));  
lblNewLabel_4.setBounds(271, 98, 42, 33);  
frame.getContentPane().add(lblNewLabel_4);
```

```
JLabel lblNewLabel_1_2 = new JLabel("2");
lblNewLabel_1_2.setForeground(new Color(255, 255, 255));
lblNewLabel_1_2.setFont(new Font("Arial", Font.PLAIN, 17));
lblNewLabel_1_2.setBounds(410, 98, 33, 33);
frame.getContentPane().add(lblNewLabel_1_2);
```

```
JLabel lblNewLabel_2_2 = new JLabel("1");
lblNewLabel_2_2.setForeground(new Color(255, 255, 255));
lblNewLabel_2_2.setFont(new Font("Arial", Font.PLAIN, 17));
lblNewLabel_2_2.setBounds(549, 98, 33, 33);
frame.getContentPane().add(lblNewLabel_2_2);
```

```
JLabel lblNewLabel_5 = new JLabel("0.50");
lblNewLabel_5.setForeground(new Color(255, 255, 255));
lblNewLabel_5.setFont(new Font("Arial", Font.PLAIN, 17));
lblNewLabel_5.setBounds(669, 98, 50, 33);
frame.getContentPane().add(lblNewLabel_5);
```

```
JLabel lblNewLabel_1_3 = new JLabel("0.20");
lblNewLabel_1_3.setForeground(new Color(255, 255, 255));
lblNewLabel_1_3.setFont(new Font("Arial", Font.PLAIN, 17));
lblNewLabel_1_3.setBounds(132, 143, 42, 33);
frame.getContentPane().add(lblNewLabel_1_3);
```

```
JLabel lblNewLabel_2_3 = new JLabel("0.10");
lblNewLabel_2_3.setForeground(new Color(255, 255, 255));
lblNewLabel_2_3.setFont(new Font("Arial", Font.PLAIN, 17));
lblNewLabel_2_3.setBounds(271, 143, 50, 33);
frame.getContentPane().add(lblNewLabel_2_3);
```

```
JLabel lblNewLabel_5_1 = new JLabel("0.05");
lblNewLabel_5_1.setForeground(Color.WHITE);
lblNewLabel_5_1.setFont(new Font("Arial", Font.PLAIN, 17));
lblNewLabel_5_1.setBounds(410, 143, 50, 33);
```

```
frame.getContentPane().add(lblNewLabel_5_1);
```

```
JLabel lblNewLabel_5_2 = new JLabel("0.02");  
lblNewLabel_5_2.setForeground(Color.WHITE);  
lblNewLabel_5_2.setFont(new Font("Arial", Font.PLAIN, 17));  
lblNewLabel_5_2.setBounds(536, 143, 46, 33);  
frame.getContentPane().add(lblNewLabel_5_2);
```

```
JLabel lblNewLabel_5_3 = new JLabel("0.01");  
lblNewLabel_5_3.setForeground(Color.WHITE);  
lblNewLabel_5_3.setFont(new Font("Arial", Font.PLAIN, 17));  
lblNewLabel_5_3.setBounds(669, 143, 50, 33);  
frame.getContentPane().add(lblNewLabel_5_3);
```

```
textField = new JTextField();  
textField.setBounds(166, 57, 60, 26);  
frame.getContentPane().add(textField);  
textField.setColumns(10);
```

```
textField_1 = new JTextField();  
textField_1.setColumns(10);  
textField_1.setBounds(312, 57, 60, 26);  
frame.getContentPane().add(textField_1);
```

```
textField_2 = new JTextField();  
textField_2.setColumns(10);  
textField_2.setBounds(448, 57, 60, 26);  
frame.getContentPane().add(textField_2);
```

```
textField_3 = new JTextField();  
textField_3.setColumns(10);  
textField_3.setBounds(582, 57, 60, 26);  
frame.getContentPane().add(textField_3);
```

```
textField_4 = new JTextField();
```

```
textField_4.setColumns(10);  
textField_4.setBounds(703, 57, 60, 26);  
frame.getContentPane().add(textField_4);
```

```
textField_5 = new JTextField();  
textField_5.setColumns(10);  
textField_5.setBounds(166, 102, 60, 26);  
frame.getContentPane().add(textField_5);
```

```
textField_6 = new JTextField();  
textField_6.setColumns(10);  
textField_6.setBounds(312, 98, 60, 26);  
frame.getContentPane().add(textField_6);
```

```
textField_7 = new JTextField();  
textField_7.setColumns(10);  
textField_7.setBounds(448, 98, 60, 26);  
frame.getContentPane().add(textField_7);
```

```
textField_8 = new JTextField();  
textField_8.setColumns(10);  
textField_8.setBounds(582, 102, 60, 26);  
frame.getContentPane().add(textField_8);
```

```
textField_9 = new JTextField();  
textField_9.setColumns(10);  
textField_9.setBounds(703, 102, 60, 26);  
frame.getContentPane().add(textField_9);
```

```
textField_10 = new JTextField();  
textField_10.setColumns(10);  
textField_10.setBounds(166, 147, 60, 26);  
frame.getContentPane().add(textField_10);
```

```
textField_11 = new JTextField();
```

```
textField_11.setColumns(10);  
textField_11.setBounds(312, 147, 60, 26);  
frame.getContentPane().add(textField_11);
```

```
textField_12 = new JTextField();  
textField_12.setColumns(10);  
textField_12.setBounds(448, 143, 60, 26);  
frame.getContentPane().add(textField_12);
```

```
textField_13 = new JTextField();  
textField_13.setColumns(10);  
textField_13.setBounds(582, 143, 60, 26);  
frame.getContentPane().add(textField_13);
```

```
textField_14 = new JTextField();  
textField_14.setColumns(10);  
textField_14.setBounds(703, 147, 60, 26);  
frame.getContentPane().add(textField_14);
```

```
JLabel lblCard = new JLabel("Card");  
lblCard.setForeground(Color.WHITE);  
lblCard.setFont(new Font("Arial", Font.PLAIN, 17));  
lblCard.setBounds(383, 251, 60, 33);  
frame.getContentPane().add(lblCard);
```

```
textField_15 = new JTextField();  
textField_15.setBounds(448, 255, 130, 26);  
frame.getContentPane().add(textField_15);  
textField_15.setColumns(10);
```

```
JLabel lblCashDifference = new JLabel("Cash difference:");  
lblCashDifference.setForeground(Color.WHITE);  
lblCashDifference.setFont(new Font("Arial", Font.PLAIN, 17));
```



```
lblCashDifference.setBounds(313, 296, 130, 33);  
frame.getContentPane().add(lblCashDifference);
```

```
JLabel lblCardDifference = new JLabel("Card difference:");  
lblCardDifference.setForeground(Color.WHITE);  
lblCardDifference.setFont(new Font("Arial", Font.PLAIN, 17));  
lblCardDifference.setBounds(313, 341, 130, 33);  
frame.getContentPane().add(lblCardDifference);
```

```
JLabel lblCashDifference_1 = new JLabel("");  
lblCashDifference_1.setForeground(Color.WHITE);  
lblCashDifference_1.setFont(new Font("Arial", Font.PLAIN, 17));  
lblCashDifference_1.setBounds(448, 296, 130, 33);  
frame.getContentPane().add(lblCashDifference_1);
```

```
JLabel lblCashDifference_2 = new JLabel("");  
lblCashDifference_2.setForeground(Color.WHITE);  
lblCashDifference_2.setFont(new Font("Arial", Font.PLAIN, 17));  
lblCashDifference_2.setBounds(448, 341, 130, 33);
```

```
JButton btnNewButton = new JButton("Calculate");  
btnNewButton.addActionListener(new ActionListener() {  
    public void actionPerformed(ActionEvent e) {  
        cash = countCash();
```

```
lblCashDifference_1.setText(Double.toString(database.checkCash(cash)));
```

```
lblCashDifference_2.setText(Double.toString(database.checkCard(Double.parseDouble(textField_15.getText()))));
```

```
    }  
});  
btnNewButton.setFont(new Font("Arial", Font.PLAIN, 15));  
btnNewButton.setBounds(312, 402, 117, 29);
```

```
frame.getContentPane().add(btnNewButton);
```

```
JButton btnBack = new JButton("Back");
```

```
btnBack.addActionListener(new ActionListener() {
```

```
    public void actionPerformed(ActionEvent e) {
```

```
        database.zeroCard();
```

```
        database.zeroCash();
```

```
        frame.dispose();
```

```
        EventQueue.invokeLater(new Runnable() {
```

```
            public void run() {
```

```
                try {
```

```
                    GuiMainEmp window = new
```

```
GuiMainEmp();
```

```
                    window.setVisible();
```

```
                } catch (Exception e) {
```

```
                    e.printStackTrace();
```

```
                }
```

```
            }
```

```
        });
```

```
    }
```

```
});
```

```
btnBack.setFont(new Font("Arial", Font.PLAIN, 15));
```

```
btnBack.setBounds(465, 402, 117, 29);
```

```
frame.getContentPane().add(btnBack);
```

```
frame.getContentPane().add(lblCashDifference_2);
```

```
frame.setResizable(false);
```

```
frame.setSize(1000,500);
```

```
frame.setDefaultCloseOperation(JFrame.DISPOSE_ON_CLOSE);
```

```
frame.setLocationRelativeTo(null);
```

```
}
```

```
public Double countCash() {
```

```
    Double d = 0.0;
```

```

        d = (Double.parseDouble(textField.getText())*500) +
(Double.parseDouble(textField_1.getText())*200)
            + (Double.parseDouble(textField_2.getText())*100) +
(Double.parseDouble(textField_3.getText())*50)
            + (Double.parseDouble(textField_4.getText())*20) +
(Double.parseDouble(textField_5.getText())*10)
            + (Double.parseDouble(textField_6.getText())*5)+
(Double.parseDouble(textField_7.getText())*2) +
(Double.parseDouble(textField_8.getText())*1)
            +(Double.parseDouble(textField_9.getText())*0.5) +
(Double.parseDouble(textField_10.getText())*0.2) +
(Double.parseDouble(textField_11.getText())*0.1)
            + (Double.parseDouble(textField_12.getText())*0.05) +
(Double.parseDouble(textField_13.getText())*0.02) +
(Double.parseDouble(textField_14.getText())*0.01);
        return d;
    }

}

```