技职教育系
Department of Vocational Education

软件工程与移动应用程序开发课程
Software Engineering and Application Developer (SEMD)

个人作业
Assignment

科目	Subject	Object-orientated Programming using Java
科目编号 Code	Subject	SEMD011
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学号 ID	Student	1850170
分数	Marks	

Loo Zhen Xi 1850170

Student Score System

Menu

Student Score Login

Login ID

Password

Login

Student Score System

Menu

Student Score Login

Login ID asd

Password asd

Login

Student Score System

Menu

Student Score Login

Login

Passv

Message

(i) Login Fail

OK

Student Score System

Menu

Student Score Login

Login ID admin

Password admin

Login

Student Score System

Menu

Stundent Mark System

Student ID

Scr

Message

(i) Login Successful

OK

Upda   lete

Delete All

Student Score System

Menu

Stundent Mark System

Student ID

Scroce

Update   Add   Delete

Delete All

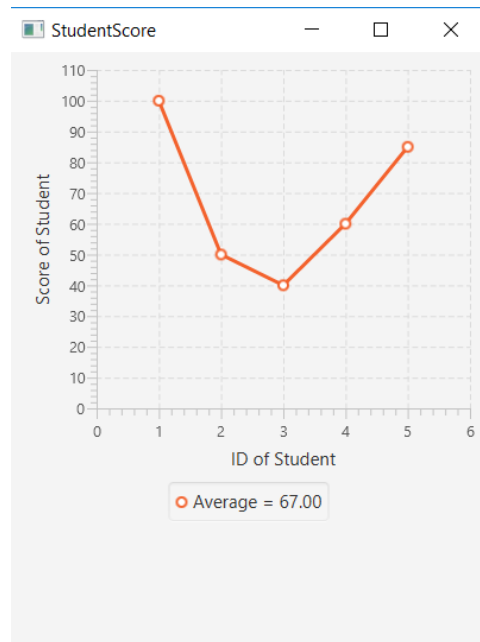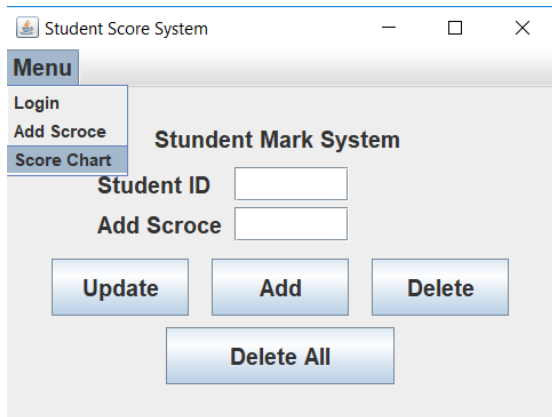Student Score System

Menu

Stundent Mark System

Student ID 1

Scroce 100

Update   Add   Delete

Delete All

Student Score System

Menu

Stundent Mark System

Student ID

Scr

Message

(i) Add Successful

OK

Upda   lete

Delete All

SetLoginFrame.java

```java
package demo;

import java.awt.Dimension;
import java.awt.Font;
import java.awt.event.*;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.Statement;

import javax.swing.*;

public class setLoginFrame extends Score_LineChart{

	static JFrame Login = new JFrame("Student Score System");

	static JMenuBar mb = new JMenuBar();
	static JMenu menu = new JMenu("Menu");
	static JMenuItem it1 = new JMenuItem("Login");
	static JMenuItem it2 = new JMenuItem("Add Scroce");
	static JMenuItem it3 = new JMenuItem("Score Chart");
	static JLabel Title = new JLabel("Student Score Login");
	static JLabel Loginid = new JLabel("Login ID");
	static JLabel Loginpw = new JLabel("Password");
	static JLabel sroce = new JLabel("Scroce");
	static JLabel student = new JLabel("Student ID");
	static JLabel marksystem = new JLabel("Stundent Mark System");
```

```java
        static JTextField Keyinid = new JTextField();
        static JTextField Keyinpw = new JTextField();
        static JTextField addsctx = new JTextField();
        static JTextField studenttx = new JTextField();
        static JButton Loginbt = new JButton("Login");
        static JButton Addsc = new JButton("Add");
        static JButton Update = new JButton("Update");
        static JButton Delete = new JButton("Delete");
        static JButton Deleteall = new JButton("Delete All");
        static String correctid;
        static String correctpw;
        static boolean numeric = true;
        static boolean isLoginSuccess = false;

        static Score_LineChart showChart = new setLoginFrame();

        public static void main(String[]agrs){
                    hideAddsc();
                    checkid();

            //Login Button addAction
            Loginbt.addActionListener(new ActionListener() {
                    public void actionPerformed(ActionEvent a)
    {

                            loginCheck();
                            }
            });
            //Add Scroe Button addAction
            Addsc.addActionListener(new ActionListener() {
                    public void actionPerformed(ActionEvent a)
    {


                            numericCheck();
                            Add();
                    }
            });


            //Update Score Button addAction
            Update.addActionListener(new ActionListener() {
                    public void actionPerformed(ActionEvent a)
    {


                            numericCheck();
                            Update();
                    }
            });
```

```java
                                //Delete Score Button add Action
                                Delete.addActionListener(new ActionListener() {
                                        public void actionPerformed(ActionEvent a)
{

                                                numericCheckDelete();
                                                Delete();
                                        }
                                });

                                //Delete All Button addAction
                                Deleteall.addActionListener(new ActionListener() {
                                        public void actionPerformed(ActionEvent a)
{

                                                DeleteAll();
                                        }
                                });

                                //MenuItem Login addAction
                                it1.addActionListener(new ActionListener() {
                                        public void actionPerformed(ActionEvent a)
{

                                                showLogin();
                                                hideAddsc();
                                                Keyinid.setText("");
                                                Keyinpw.setText("");
                                        }
                                });

                                //MenuItem Add Scroce addAction
                                it2.addActionListener(new ActionListener() {
                                        public void actionPerformed(ActionEvent a)
{

                                                if(isLoginSuccess == true) {
                                                hideLogin();
                                                showAddsc();
                                                }
                                                else {

                                JOptionPane.showMessageDialog(null, "<html><font
color=red style='font-size:12px'>Login First</font></html>");
                                                }
                                        }
                                });

                                //MenuItem Show Chart add Action
                                it3.addActionListener(new ActionListener() {
```

```java
                                    public void actionPerformed(ActionEvent a)
{
                                        if(isLoginSuccess == true) {
                                            showChart.main(agrs);
                                        }
                                        else {

                            JOptionPane.showMessageDialog(null, "<html><font
color=red style='font-size:12px'>Login First</font></html>");
                                        }
                                    }
                    });

                    //set JLabel
                    Title.setBounds(130,30,250,30);
                    Title.setFont(Title.getFont().deriveFont(20.0f));
                    Loginid.setBounds(90,70,100,30);

            Loginid.setFont(Loginid.getFont().deriveFont(20.0f));
                    Loginpw.setBounds(90,105,100,30);

            Loginpw.setFont(Loginpw.getFont().deriveFont(20.0f));
                    sroce.setBounds(80,105,130,30);
                    sroce.setFont(sroce.getFont().deriveFont(20.0f));
                    student.setBounds(80,70,130,30);

            student.setFont(student.getFont().deriveFont(20.0f));
                    marksystem.setBounds(130,30,250,30);

            marksystem.setFont(marksystem.getFont().deriveFont(20.
0f));

                    //set JTextField
                    Keyinid.setBounds(200,70,150,30);

            Keyinid.setFont(Keyinid.getFont().deriveFont(20.0f));
                    Keyinpw.setBounds(200,105,150,30);

            Keyinpw.setFont(Keyinpw.getFont().deriveFont(20.0f));
                    addsctx.setBounds(200,105,100,30);

            addsctx.setFont(addsctx.getFont().deriveFont(20.0f));
                    studenttx.setBounds(200,70,100,30);

            studenttx.setFont(studenttx.getFont().deriveFont(20.0f));

                    //set JButton
                    Loginbt.setBounds(180,150,100,50);
```

```java
Loginbt.setFont(Loginbt.getFont().deriveFont(20.0f));
    Addsc.setBounds(180,150,120,50);
    Addsc.setFont(Addsc.getFont().deriveFont(20.0f));
    Update.setBounds(40,150,120,50);

Update.setFont(Update.getFont().deriveFont(20.0f));
    Delete.setBounds(320,150,120,50);
    Delete.setFont(Delete.getFont().deriveFont(20.0f));
    Deleteall.setBounds(140,210,200,50);

Deleteall.setFont(Deleteall.getFont().deriveFont(20.0f));

    //add JLabel
    Login.add(Title);
    Login.add(Loginid);
    Login.add(Loginpw);
    Login.add(sroce);
    Login.add(student);
    Login.add(marksystem);

    //add JTextField
    Login.add(Keyinid);
    Login.add(Keyinpw);
    Login.add(addsctx);
    Login.add(studenttx);

    //add JButton
    Login.add(Loginbt);
    Login.add(Addsc);
    Login.add(Update);
    Login.add(Delete);
    Login.add(Deleteall);

    //add menu
    menu.add(it1);
    it1.setFont(it1.getFont().deriveFont(15.0f));
    menu.add(it2);
    it2.setFont(it2.getFont().deriveFont(15.0f));
    menu.add(it3);
    it3.setFont(it3.getFont().deriveFont(15.0f));
    mb.add(menu);
    menu.setFont(menu.getFont().deriveFont(20.0f));

    Login.setJMenuBar(mb);
    Login.setLayout(null);
    Login.setSize(500,370);
    Login.setVisible(true);
```

```java
        }

        //hide Login
        static void hideLogin() {
                Loginid.setVisible(false);
                Loginpw.setVisible(false);
                Keyinid.setVisible(false);
                Keyinpw.setVisible(false);
                Loginbt.setVisible(false);
                Title.setVisible(false);
        }

        //show Login
        static void showLogin() {
                Loginid.setVisible(true);
                Loginpw.setVisible(true);
                Keyinid.setVisible(true);
                Keyinpw.setVisible(true);
                Loginbt.setVisible(true);
                Title.setVisible(true);
        }
        //hide AddScroce
        static void hideAddsc() {
                sroce.setVisible(false);
                addsctx.setVisible(false);
                Addsc.setVisible(false);
                studenttx.setVisible(false);
                student.setVisible(false);
                marksystem.setVisible(false);
                Update.setVisible(false);
                Delete.setVisible(false);
                Deleteall.setVisible(false);
        }

        //show AddScroce
        static void showAddsc() {
                sroce.setVisible(true);
                addsctx.setVisible(true);
                Addsc.setVisible(true);
                studenttx.setVisible(true);
                student.setVisible(true);
                marksystem.setVisible(true);
                Update.setVisible(true);
                Delete.setVisible(true);
                Deleteall.setVisible(true);
        }

        static void checkid() {
```

```java
		try {
			Class.forName("com.mysql.jdbc.Driver");
			Connection con=DriverManager.getConnection(
				"jdbc:mysql://localhost:3306/school","root","");
				//here erp_nalanda is database name, root is username and password

			Statement stmt = con.createStatement();
			ResultSet rs = stmt.executeQuery("select * from login");

			while(rs.next()) {
			correctid=rs.getString(1);
			correctpw = rs.getString(2);
			}
			con.close();
		} catch(Exception e) {
				System.out.println(e);

			JOptionPane.showMessageDialog(null, "<html><font color=red style='font-size:12px'>Please Open XAMPP and Open Again</font></html>");
		}
	}

	static void loginCheck() {
		String id = Keyinid.getText().toString();
		String pw = Keyinpw.getText().toString();

		if(id.equals(correctid)  && pw.equals(correctpw)) {
			hideLogin();
			showAddsc();
			isLoginSuccess = true;
			JOptionPane.showMessageDialog(null, "<html><font color=green style='font-size:12px'>Login Successful</font></html>");
		}
		else {
			isLoginSuccess = false;
			Keyinid.setText("");
			Keyinpw.setText("");
			JOptionPane.showMessageDialog(null, "<html><center><font color=red style='font-size:12px'>Login Fail</font></html>");
		}
	}

	static void numericCheck() {
		try {
    double num = Double.parseDouble(studenttx.getText().toString());
```

```java
            double ber = Double.parseDouble(addsctx.getText().toString());
        } catch (NumberFormatException e) {
            numeric = false;
        }
                                                }
                                                static void numericCheckDelete() {
                                                        try {
        int num = Integer.parseInt(studenttx.getText().toString());
        } catch (NumberFormatException e) {
            numeric = false;
        }
                                                }

                                                static void Add() {
                                                        if(numeric) {
                                                                try {

                                                Class.forName("com.mysql.jdbc.Driver");
                                                                Connection
con=DriverManager.getConnection(

                                                "jdbc:mysql://localhost:3306/school","root","");
                                                                //here erp_nalanda is database
name, root is username and password

                                                                Statement stmt =
con.createStatement();


                                                while(!addsctx.getText().toString().isEmpty()) {
                                                                String sql = ("INSERT INTO Student
VALUES ("+ studenttx.getText().toString() +"," +  addsctx.getText().toString() +")");

                                                                stmt.executeUpdate(sql);
                                                                con.close();
                                                                }

                                                        } catch(Exception e) {
                                                                System.out.println(e);
                                                        }
                                                        studenttx.setText("");
                                                        addsctx.setText("");
                                                        JOptionPane.showMessageDialog(null,
"<html><font color=green style='font-size:12px'>Add Successful</font></html>");

                                                }
                                                        else {
                                                                studenttx.setText("");
                                                                addsctx.setText("");
```

```java
                                JOptionPane.showMessageDialog(null, "<html><font
color=red style='font-size:12px'>Must Fill In All.Only Accept Number.</font></html>");
                                        numeric=true;
                                }
                        }

                        static void Update() {
                                if(numeric) {
                                        try {

                                Class.forName("com.mysql.jdbc.Driver");
                                                Connection
con=DriverManager.getConnection(

                                "jdbc:mysql://localhost:3306/school","root","");
                                                //here erp_nalanda is database
name, root is username and password
                                                Statement stmt =
con.createStatement();
                                                ResultSet rs =
stmt.executeQuery("select * from student");

                                                while(rs.next()) {
                                                if(rs.getInt(1)==
Integer.parseInt(studenttx.getText().toString())){

                                                String sql = ("Update Student set
Score = "+ addsctx.getText().toString() +" Where ID = " +  studenttx.getText().toString() + ";");

                                                stmt.executeUpdate(sql);
                                                con.close();
                                                studenttx.setText("");
                                                addsctx.setText("");

                                JOptionPane.showMessageDialog(null, "<html><font
color=green style='font-size:12px'>Update Successful</font></html>");
                                                return;
                                                }
                                                }

                                                con.close();
                                                studenttx.setText("");
                                                addsctx.setText("");

                                JOptionPane.showMessageDialog(null, "<html><font
color=red style='font-size:12px'>Update Fail. ID didnt exits.</font></html>");
                                                numeric=true;
```

```java
                                    } catch(Exception e) {
                                            System.out.println(e);
                                    }

                            }
                            else {
                                    studenttx.setText("");
                                    addsctx.setText("");
                                    JOptionPane.showMessageDialog(null,
"<html><font color=red style='font-size:12px'>Must Fill In All.Only Accept Number.</font></html>");
                                    numeric=true;
                            }
                    }

                    static void Delete() {
                            if(numeric) {
                                    try {

Class.forName("com.mysql.jdbc.Driver");
                                            Connection
con=DriverManager.getConnection(

"jdbc:mysql://localhost:3306/school","root","");
                                            //here erp_nalanda is database
name, root is username and password

                                            Statement stmt =
con.createStatement();

                                            ResultSet rs =
stmt.executeQuery("select * from student");

                                            while(rs.next()) {
                                            if(rs.getInt(1)==
Integer.parseInt(studenttx.getText().toString())){

                                            String sql = ("Delete from student
Where ID = " +  studenttx.getText().toString() + ";");

                                            stmt.executeUpdate(sql);
                                            con.close();
                                            studenttx.setText("");
                                            addsctx.setText("");

                                    JOptionPane.showMessageDialog(null, "<html><font
color=green style='font-size:12px'>Delete Successful</font></html>");
                                            return;
                                            }
                                            }
                                            con.close();
```

```java
                                        studenttx.setText("");
                                        addsctx.setText("");

                        JOptionPane.showMessageDialog(null, "<html><font
color=red style='font-size:12px'>Delete Fail. ID didnt exits.</font></html>");
                                        numeric=true;

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

                        }
                        else {
                                studenttx.setText("");
                                addsctx.setText("");
                                JOptionPane.showMessageDialog(null,
"<html><font color=red style='font-size:12px'>Must Fill In ID.Only Accept Number.</font></html>");
                                numeric=true;
                        }
                }

                static void DeleteAll() {
                        try {
                                Class.forName("com.mysql.jdbc.Driver");
                                Connection
con=DriverManager.getConnection(

"jdbc:mysql://localhost:3306/school","root","");
                                //here erp_nalanda is database name, root
is username and password

                                Statement stmt = con.createStatement();
                                ResultSet rs = stmt.executeQuery("select *
from student");

                                String sql = ("Delete from student;");

                                stmt.executeUpdate(sql);
                                con.close();
                                studenttx.setText("");
                                addsctx.setText("");
                                JOptionPane.showMessageDialog(null,
"<html><font color=red style='font-size:12px'>All Data Deleted</font></html>");

                        } catch(Exception e) {
                                System.out.println(e);
                        }
                }
}
```

Score_LineChart.java

```java
package demo;

import javafx.scene.chart.NumberAxis;
import javafx.scene.layout.VBox;
import javafx.stage.Stage;
import javafx.scene.Scene;
import javafx.scene.chart.*;
import javafx.application.Application;
import javafx.application.Platform;

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.Statement;
import java.text.DecimalFormat;
import java.sql.*;

import javafx.*;


public class Score_LineChart extends Application{
        static DecimalFormat dec = new DecimalFormat("#.00");
        static double total;
        static int student;

        public void start(Stage primaryStage) {

                final NumberAxis xAxis = new NumberAxis(0,6,1);
                xAxis.setLabel("ID of Student");

                final NumberAxis yAxis = new NumberAxis();
                yAxis.setLabel("Score of Student");

                LineChart lineChart = new LineChart (xAxis,yAxis);

                XYChart.Series dataSeries1 = new XYChart.Series();


                try {
                        Class.forName("com.mysql.jdbc.Driver");
                        Connection
con=DriverManager.getConnection(

"jdbc:mysql://localhost:3306/school","root","");
```

```java
//here erp_nalanda is database name, root is username and password

            Statement stmt = con.createStatement();
            ResultSet id = stmt.executeQuery("select * from student");

            while(id.next()) {
                    dataSeries1.getData().add(new XYChart.Data(id.getInt(1),id.getInt(2)));

                    student++;
                    total+=id.getInt(2);
            }
            con.close();

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

    total=total/student;

            dataSeries1.setName("Average = " + dec.format(total));

            lineChart.getData().add(dataSeries1);

            VBox vbox = new VBox(lineChart);

            Scene scene = new Scene(vbox,400,500);

            primaryStage.setScene(scene);
            primaryStage.setTitle("StudentScore");
            primaryStage.show();

    }
    public static void main(String[]args) {
        launch(args);

    }
}
```