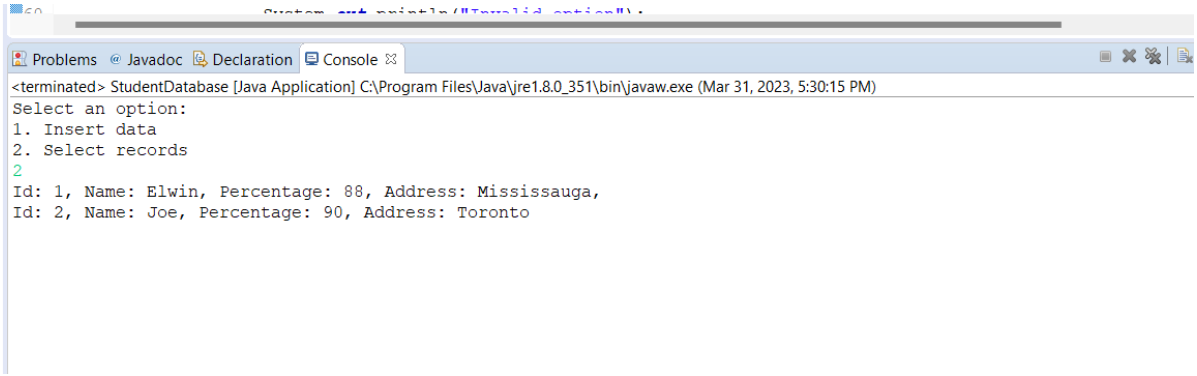
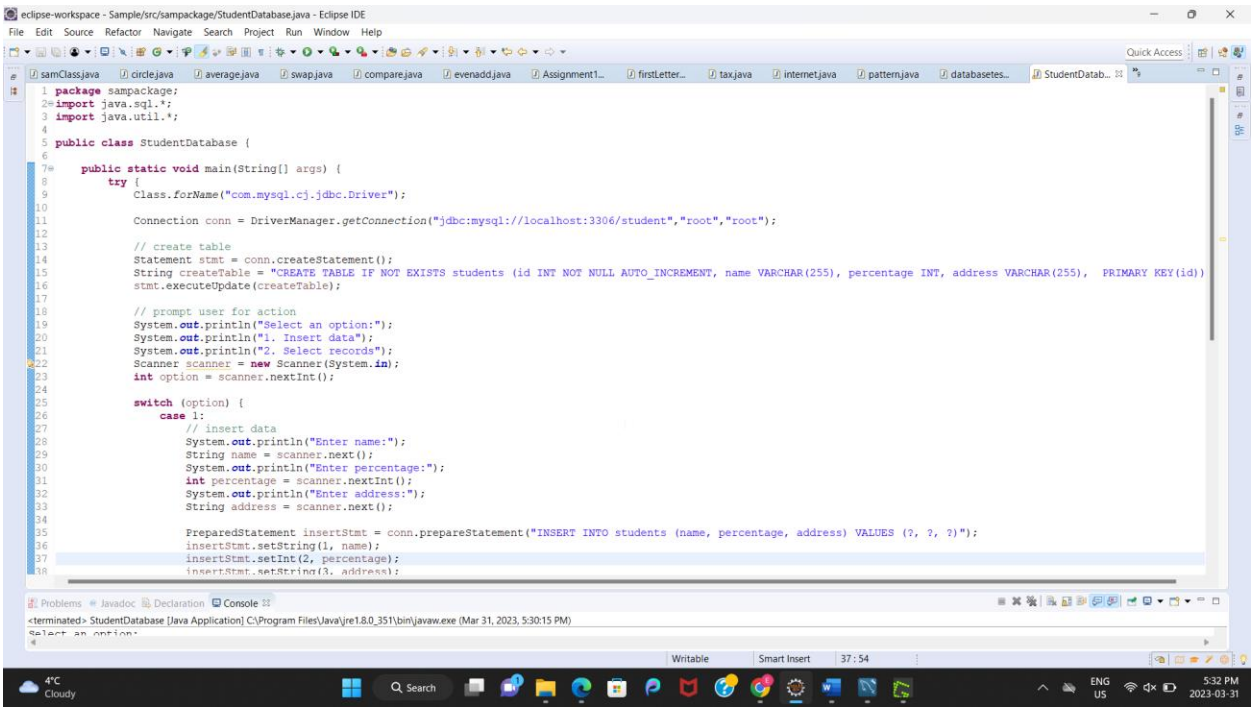
Assignment – 6 | C0873610 | Elwin Paulson

Output –



Code-


eclipse-workspace - Sample/src/sampackage/StudentDatabase.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Quick Access
samClass.java circle.java average.java swap.java compare.java evenadd.java Assignment1... firstLetter... tax.java internet.java pattern.java databasetes... StudentDatab...
1 package sampackage;
2 import java.sql.*;
3 import java.util.*;
4
5 public class StudentDatabase {
6
7 public static void main(String[] args) {
8 try {
9 Class.forName("com.mysql.cj.jdbc.Driver");
10
11 Connection conn = DriverManager.getConnection("jdbc:mysql://localhost:3306/student","root","root");
12
13 // create table
14 Statement stmt = conn.createStatement();
15 String createTable = "CREATE TABLE IF NOT EXISTS students (id INT NOT NULL AUTO_INCREMENT, name VARCHAR(255), percentage INT, address VARCHAR(255), PRIMARY KEY(id))
16 stmt.executeUpdate(createTable);
17
18 // prompt user for action
19 System.out.println("Select an option:");
20 System.out.println("1. Insert data");
21 System.out.println("2. Select records");
22 Scanner scanner = new Scanner(System.in);
23 int option = scanner.nextInt();
24
25 switch (option) {
26 case 1:
27 // insert data
28 System.out.println("Enter name:");
29 String name = scanner.next();
30 System.out.println("Enter percentage:");
31 int percentage = scanner.nextInt();
32 System.out.println("Enter address:");
33 String address = scanner.next();
34
35 PreparedStatement insertStmt = conn.prepareStatement("INSERT INTO students (name, percentage, address) VALUES (?, ?, ?)");
36 insertStmt.setString(1, name);
37 insertStmt.setInt(2, percentage);
38 insertStmt.setString(3, address);
Problems Javadoc Declaration Console
<terminated> StudentDatabase [Java Application] C:\Program Files\Java\jre1.8.0_351\bin\javaw.exe (Mar 31, 2023, 5:30:15 PM)
Select an option:
Writable Smart Insert 37 : 54
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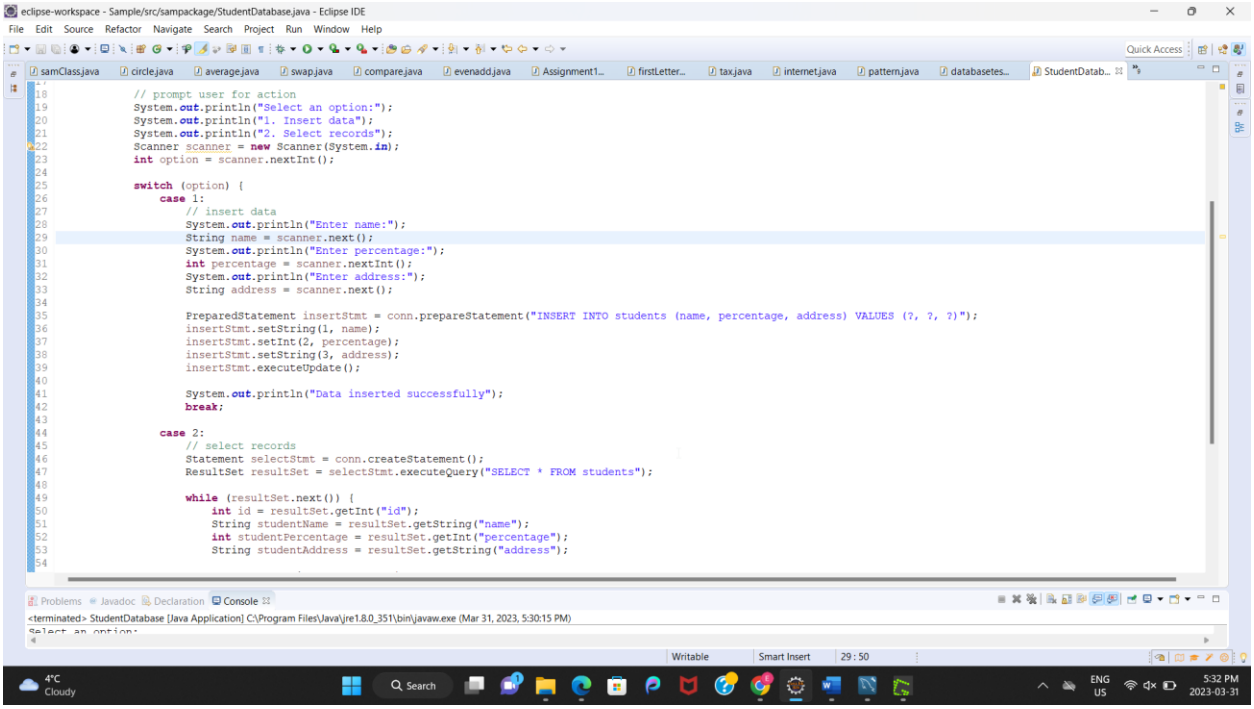
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35 PreparedStatement insertStmt = conn.prepareStatement("INSERT INTO students (name, percentage, address) VALUES (?, ?, ?)");
36 insertStmt.setString(1, name);
37 insertStmt.setInt(2, percentage);
38 insertStmt.setString(3, address);
39 insertStmt.executeUpdate();
40
41 System.out.println("Data inserted successfully");
42 break;
43
44 case 2:
45 // select records
46 Statement selectStmt = conn.createStatement();
47 ResultSet resultSet = selectStmt.executeQuery("SELECT * FROM students");
48
49 while (resultSet.next()) {
50 int id = resultSet.getInt("id");
51 String studentName = resultSet.getString("name");
52 int studentPercentage = resultSet.getInt("percentage");
53 String studentAddress = resultSet.getString("address");
54
Problems Javadoc Declaration Console
<terminated> StudentDatabase [Java Application] C:\Program Files\Java\jre1.8.0_351\bin\javaw.exe (Mar 31, 2023, 5:30:15 PM)
Select an option:
Writable Smart Insert 29 : 50
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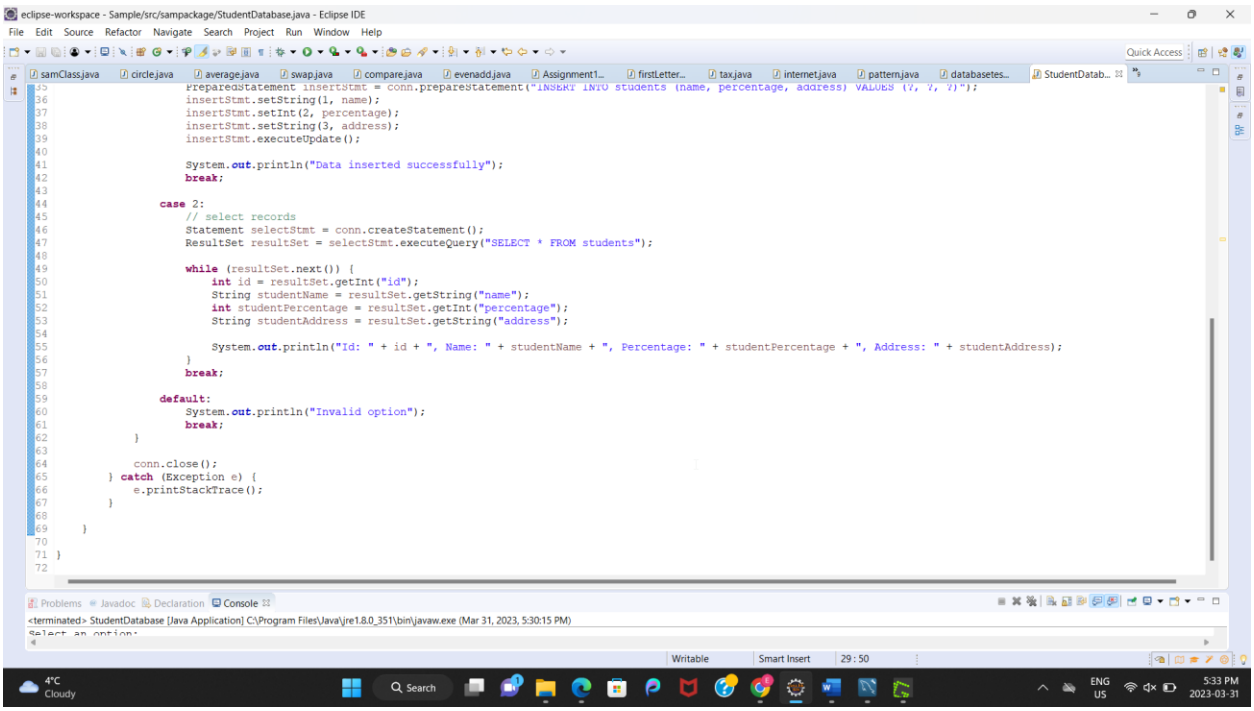
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insertStmt.executeUpdate();
System.out.println("Data inserted successfully");
break;
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ResultSet resultSet = selectStmt.executeQuery("SELECT * FROM students");
while (resultSet.next()) {
int id = resultSet.getInt("id");
String studentName = resultSet.getString("name");
int studentPercentage = resultSet.getInt("percentage");
String studentAddress = resultSet.getString("address");
System.out.println("Id: " + id + ", Name: " + studentName + ", Percentage: " + studentPercentage + ", Address: " + studentAddress);
}
break;
default:
System.out.println("Invalid option");
break;
}
conn.close();
} catch (Exception e) {
e.printStackTrace();
}
}
}
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