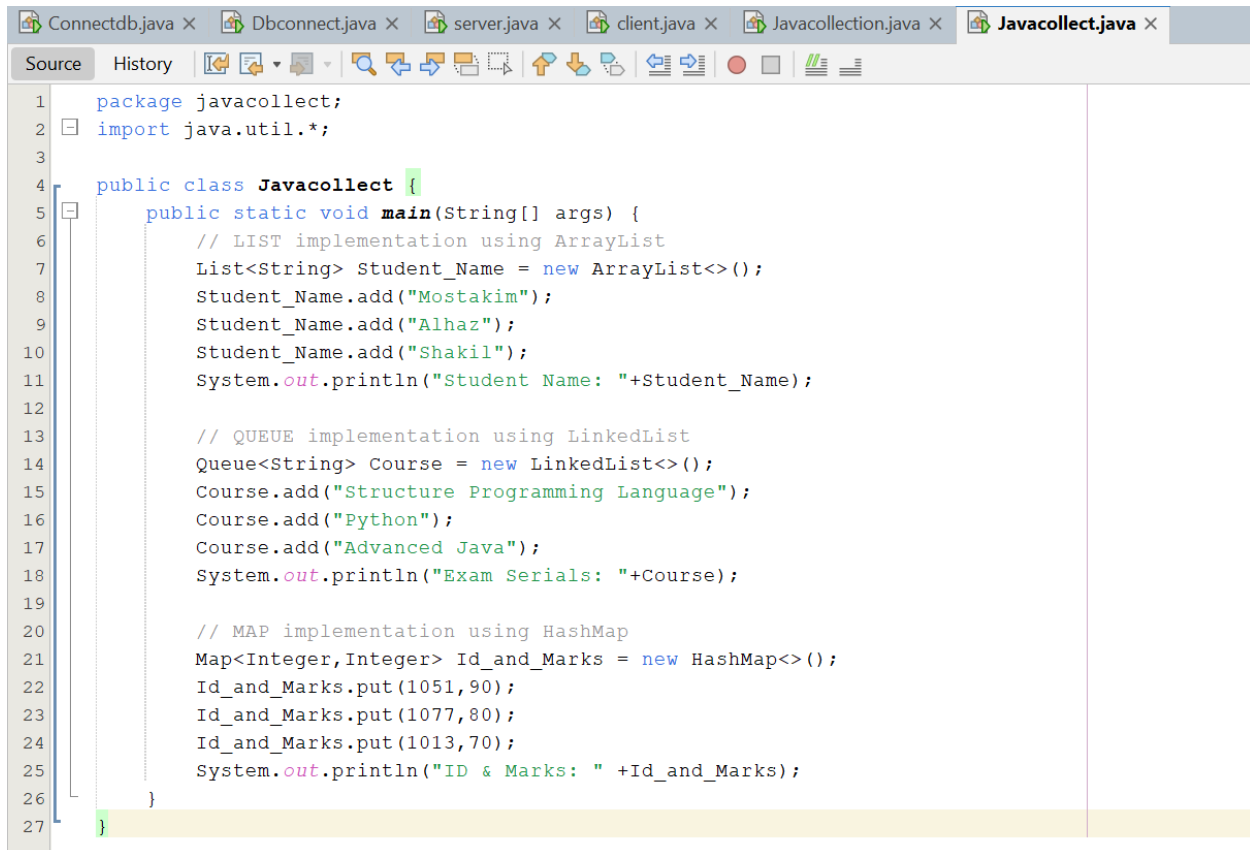# Advanced Java Assignment
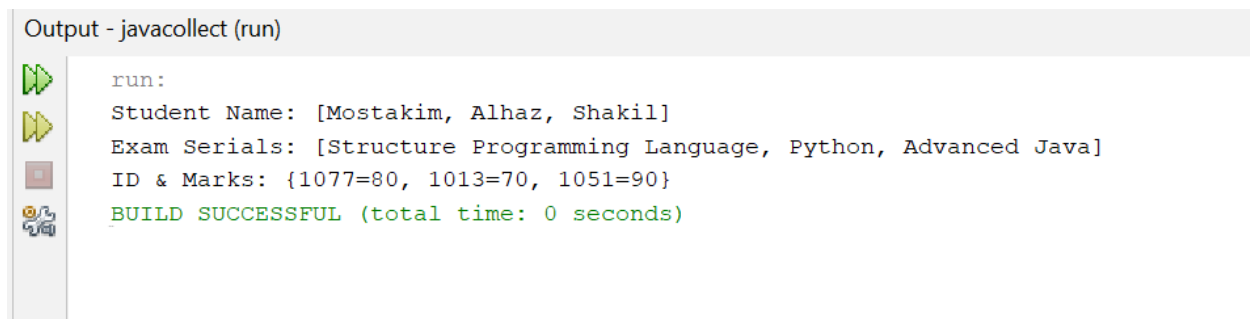
Assignment Task:1

Code:

```java
package javacollect;
import java.util.*;

public class Javacollect {
    public static void main(String[] args) {
        // LIST implementation using ArrayList
        List<String> Student_Name = new ArrayList<>();
        Student_Name.add("Mostakim");
        Student_Name.add("Alhaz");
        Student_Name.add("Shakil");
        System.out.println("Student Name: "+Student_Name);

        // QUEUE implementation using LinkedList
        Queue<String> Course = new LinkedList<>();
        Course.add("Structure Programming Language");
        Course.add("Python");
        Course.add("Advanced Java");
        System.out.println("Exam Serials: "+Course);

        // MAP implementation using HashMap
        Map<Integer,Integer> Id_and_Marks = new HashMap<>();
        Id_and_Marks.put(1051,90);
        Id_and_Marks.put(1077,80);
        Id_and_Marks.put(1013,70);
        System.out.println("ID & Marks: " +Id_and_Marks);
    }
}
```

Output:

```
Output - javacollect (run)

run:
Student Name: [Mostakim, Alhaz, Shakil]
Exam Serials: [Structure Programming Language, Python, Advanced Java]
ID & Marks: {1077=80, 1013=70, 1051=90}
BUILD SUCCESSFUL (total time: 0 seconds)
```

Code:

Source | History

```java
1    package dbconnect;
2    import java.sql.*;
3
4    public class Dbconnect {
5        // Delete method
6        public static void deleted(int id) {
7            try {
8                Connection conn = DriverManager.getConnection("jdbc:mysql://localhost:3306/dbconnect", "root", "");
9                String sql = "DELETE FROM students_details WHERE std_id = ?";
10               PreparedStatement ps = conn.prepareStatement(sql);
11               ps.setInt(1, id);
12               int row = ps.executeUpdate();
13
14               if (row > 0) {
15                   System.out.println("Value Deleted");
16               } else {
17                   System.out.println("ID Not Found");
18               }
19               conn.close();
20           } catch (SQLException e) {
21               e.printStackTrace();
22           }
23       }
24
25       // Main method with insert operation
26       public static void main(String[] args) {
27           try {
28               Connection conn = DriverManager.getConnection("jdbc:mysql://localhost:3306/dbconnect", "root", "");
29               System.out.println("Connection Successful");
30
31               String sql = "INSERT INTO students_details(Name, Marks, Total, Grade) VALUES(?, ?, ?, ?)";
32               PreparedStatement ps = conn.prepareStatement(sql);
33               ps.setString(1, "Mostakim");
34               ps.setString(2, "90");
35               ps.setString(3, "90");
36               ps.setString(4, "A");
37
38               ps.executeUpdate();
39               System.out.println("Data Inserted Successfully");
40               conn.close();
41           } catch (SQLException e) {
42               e.printStackTrace();
43           }
```

Output:

```
Output - dbconnect (run)

run:
Connection Successful
Data Inserted Successfully
BUILD SUCCESSFUL (total time: 1 second)
```

				⌄	id	Name	Marks	Total	Grade
☐	✎ Edit	⊞ Copy	⊖ Delete		1	Mostakim	90	90	A
☐	✎ Edit	⊞ Copy	⊖ Delete		2	alhaz	80	80	A
☐	✎ Edit	⊞ Copy	⊖ Delete		3	shakil	70	70	A-