Task 1: Connect to Mysql Database

In this task I have created one class **MysqlDBConnection** in which i created **myDBgetConnection()** method. In this methos I write Database Connection code as following.

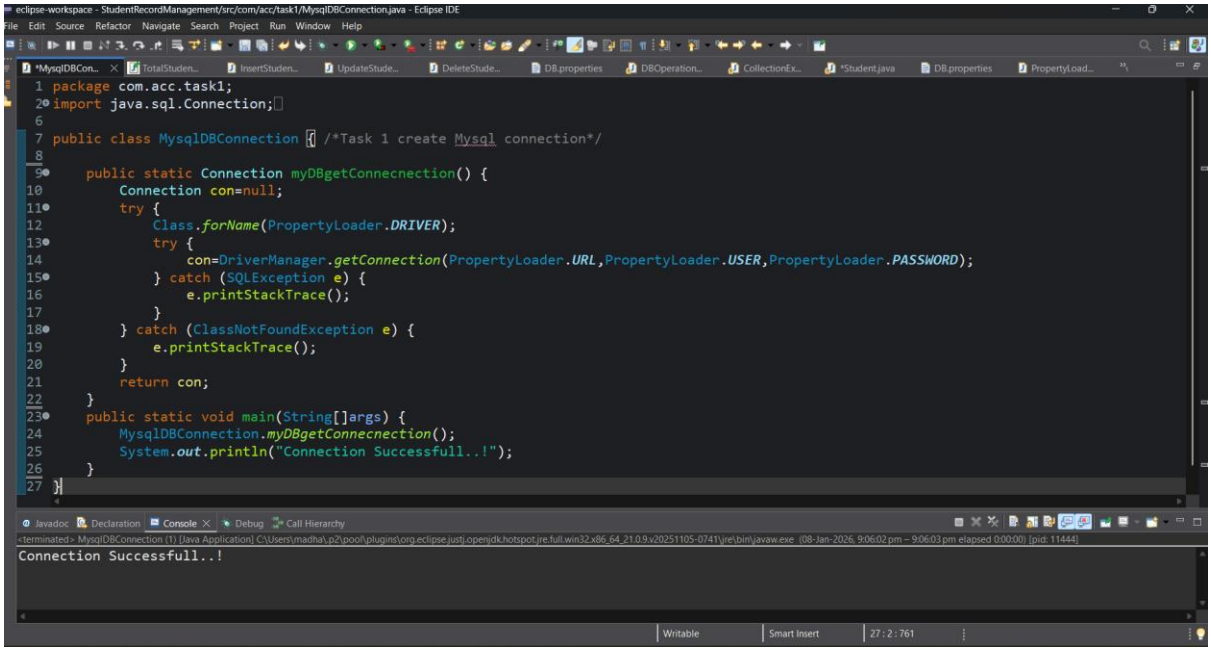
1. Created **Connection con** reference variable

2.**Rrgistered Driver** using **DriverManager.getConnection()** method and pass the url,username,password

3.Call the **myDBgetConnection()** method in main method

4.Run the program

5.Output- printed message **“Connection successful..!”.**



Task 2: Display All Students

In this task I have Display all the record from database using “Select Query” through java application.I creaded one class **TotalStudent** ,in which I created **displayAllStudent()** method In this method I write the logic for printing Student records from database .

1.Created connection by calling method **myDBgetConnection()** which contains connection code.

2.Used **Statement Interface** for creating statement

3 execucute the query using **executeQuery();**

4.storeed record in **resultSet rs**

5.Retrive records from **rs** using getInt/getString method and stored in **object** of type **TotalStudent.**

6.Created the reference of **List<Total Student> stu** and created **Object of Arraylist** --(Used Generic Collection)

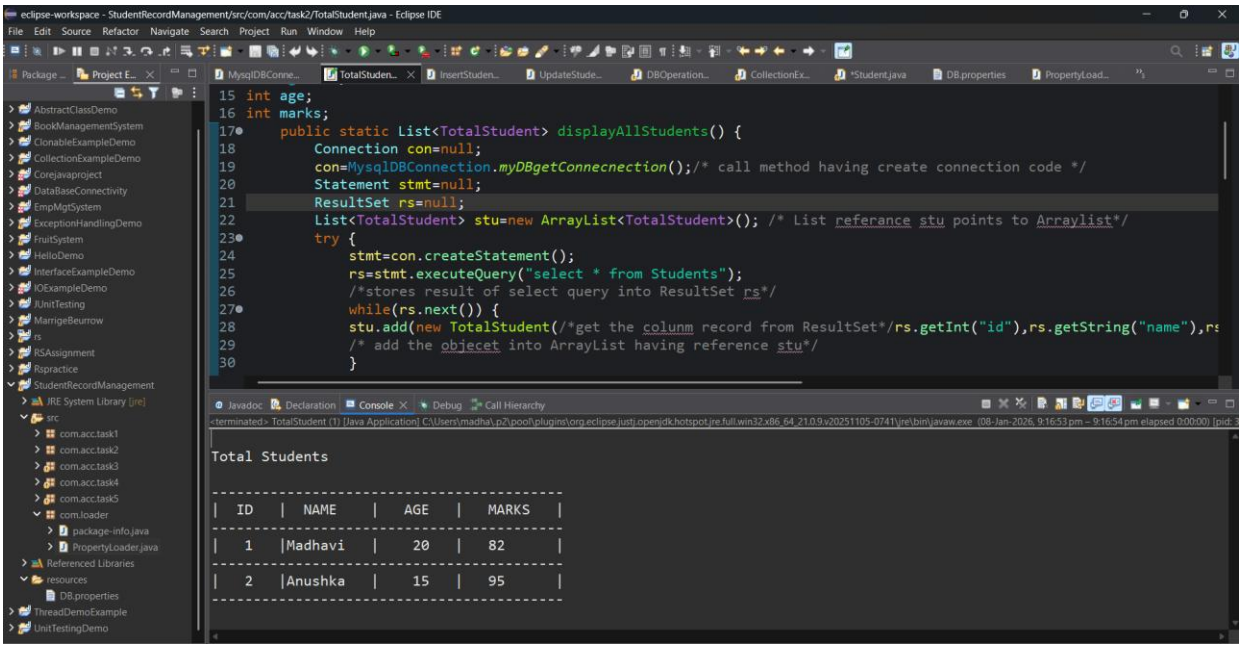
7.Stored the **TotalStudent type object** into **ArrayList stu** using **add()** method of collection.

8.closed connection using **close()** method.

9. Returned **ArrayList stu.**

10.Call **displayAllStudent()** in main method.

11.Print record from **ArrayList stu** using **Inhance for Loop**



Task 3: Insert Student Record

In this task I have insert the student Details into the database. through the java application

Using “insert Query”.I created one class **InsertStudentRecord** in this class I created one method **stuInfoInsertion()** containing the logic of Inert record into database as follow.

1.Created connection by calling method **myDBgetConnection()** which contains connection code.

2.create statement using **PreparedStatement psmt**

3.call **preparedStatement()** and pass insert query as argument.

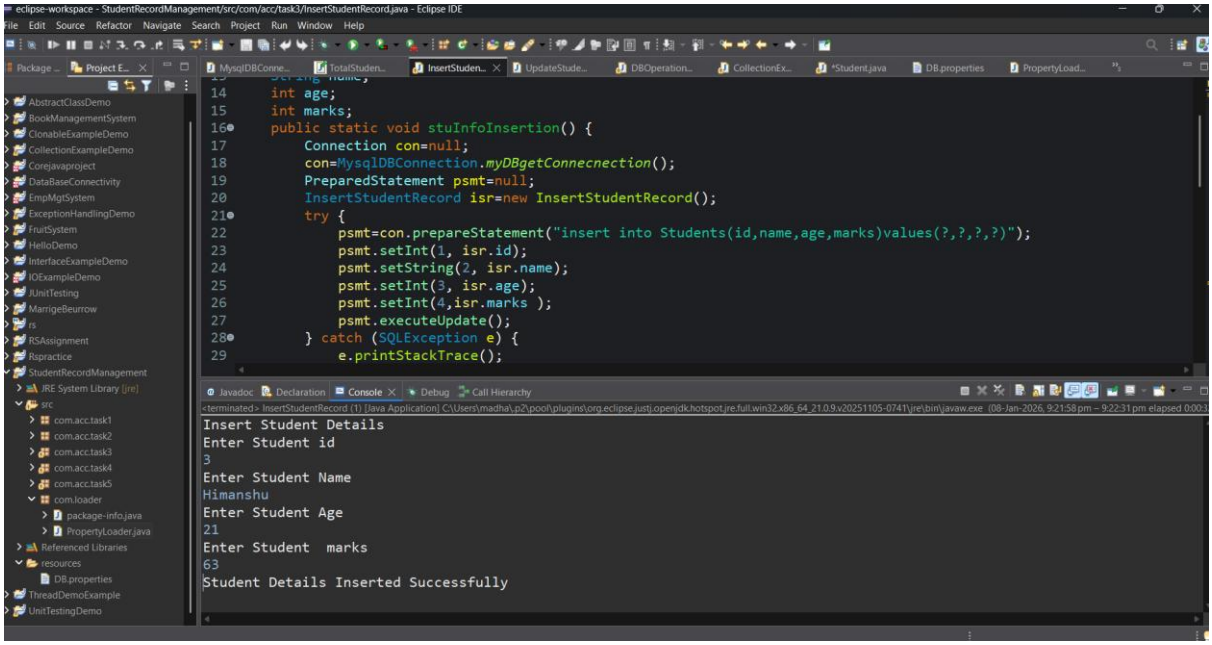
4.take value from user using **Scanner** object

5.stored that value using setInt() method into **psmt** and pass to insert query .

6.execute the statement using **executeUpdate() .**

7. closed connection using **close()** method.

8.call **stuInfoInsertion()** in main method and print Insetion successfull message.



Task 4: Update Student Marks

In this task I have update the student **marks** by student **id** using “update query” through java application. I have created one class **UpdateStudentRecord** in which I created **stuInfoupdation()** method containing logic for updating record of database as follow.

1.Created connection by calling method **myDBgetConnection()** which contains connection code.

2.create statement using **PreparedStatement psmt**

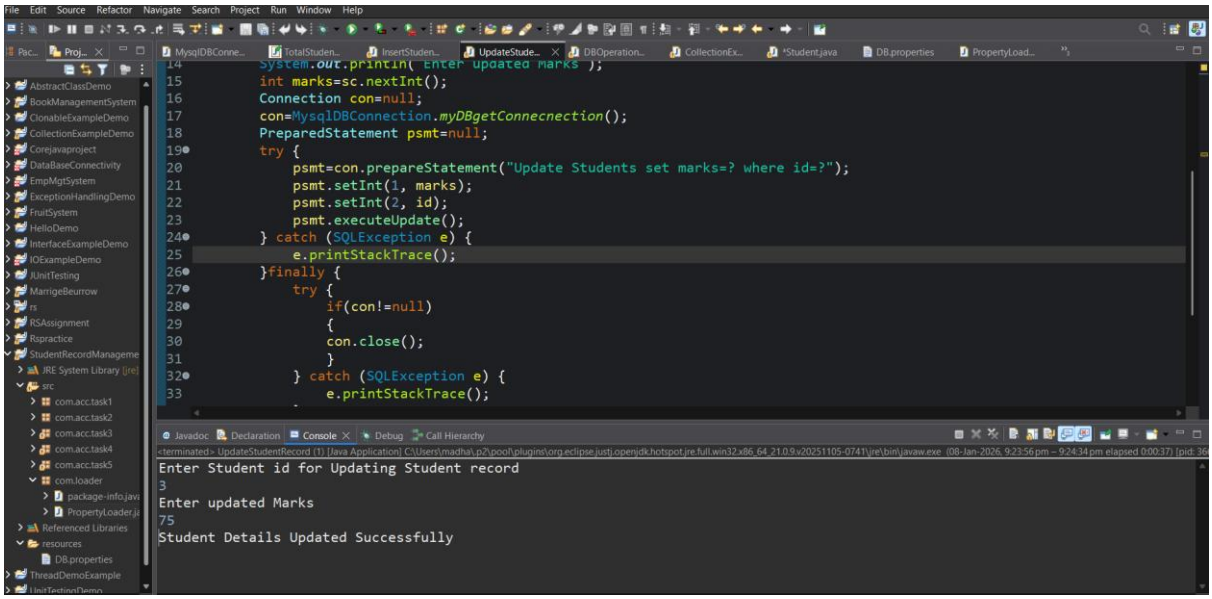
3.take value of id from user using **Scanner** object

4.call **preparedStatement()** and pass update query as argument.

5.execute the statement using **executeUpdate() .**

6. closed connection using **close()** method.

8.call **stuInfoupdation()** in main method and print updation successfull message.



Task 5: Delete Student Record

In this task I have delete the student record by student **id** using “delete query” through java application. I have created one class **DeleteStudentRecord** in which I created **stuInfoDeletion()** method containing logic for deleting record from database as follow.

1.Created connection by calling method **myDBgetConnection()** which contains connection code.

2.create statement using **PreparedStatement psmt**

3.take value of id from user using **Scanner** object

4.call **preparedStatement()** and pass delete query as argument.

5.execute the statement using **executeUpdate() .**

6. closed connection using **close()** method.

8.call **stuInfoDeletion()** in main method and print updation successfull message.