DAY-14

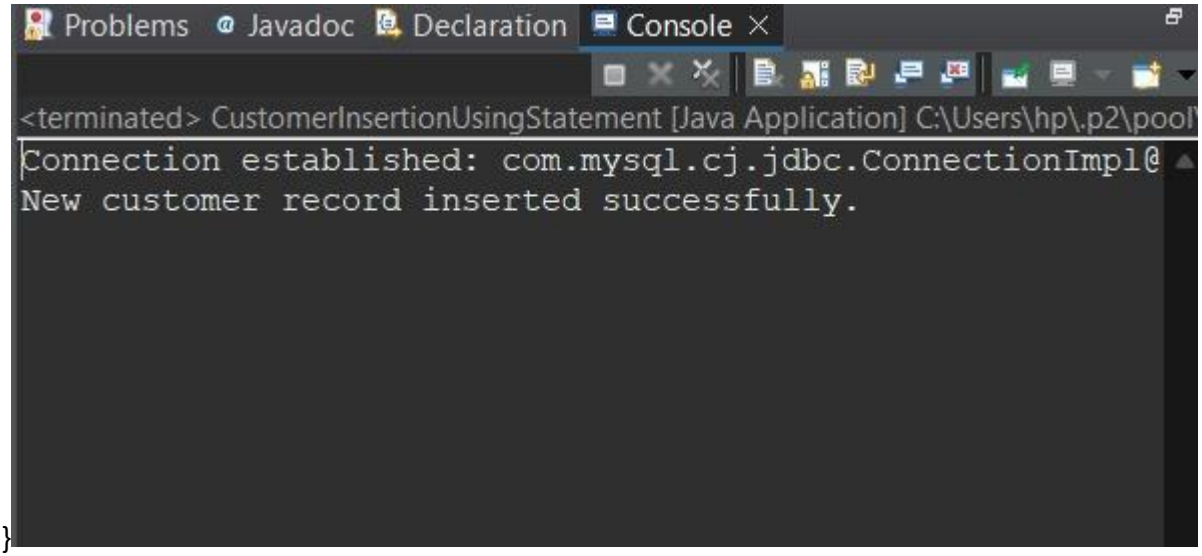
1. Write a program to insert data of a customer in database use customer data and perform database connectivity operation.

```
package jdbcpkg;


import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.SQLException;


public class CreateConnection {


   // Method to establish a database connection

   public static Connection dbConnect() {

      Connection con = null;

      try {

         // Register the JDBC driver

         Class.forName("com.mysql.cj.jdbc.Driver");


         // Establish the connection

         con =
DriverManager.getConnection("jdbc:mysql://localhost:3002/customermanagementsystem",

               "root", "root");

         System.out.println("Connection established: " + con);


      } catch (ClassNotFoundException e) {

         System.out.println("MySQL JDBC Driver not found. Make sure it's added to the project
libraries.");

         e.printStackTrace();

      } catch (SQLException e) {
```

```
            System.out.println("Failed to establish connection. Please check URL, username, and password.");
            e.printStackTrace();
        }
        return con;
    }
}
package jdbcpkg;

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.Statement;

public class CreateTableWithSelectQuery {

    public static void main(String[] args) {
        try {
            // creating Connection object
            Connection con = null;
            // Register the driver
            Class.forName("com.mysql.cj.jdbc.Driver");

            // established the connection
            con = DriverManager.getConnection("jdbc:mysql://localhost:3002/customermanagementsystem", "root", "root");

            // printing Connection Object
            System.out.println("Connection: " + con);
```

```
                    // creating statement
                    Statement stmt = con.createStatement();

                    String sql = "create table Customers(id int primary key
auto_increment,name varchar(30)"
                                    + " not null,email varchar(50) not null)";
                    stmt.executeUpdate(sql);
                    System.out.println("table creation done successfully");

                    // select query
                    String selectQuery = "select * from Customers";

                    // executing query
                    ResultSet rs = stmt.executeQuery(selectQuery);

                    // checking data is present or not
                    while (rs.next()) {

                        System.out.println("Id: " + rs.getInt(1));
                        System.out.println("Name:" + rs.getString("name"));
                        System.out.println("Email: " + rs.getString(3));

        System.out.println("=============================================");
                    }

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

```
        }

}
package jdbcpkg;

import java.sql.Connection;
import java.sql.SQLException;
import java.sql.Statement;

public class CustomerInsertionUsingStatement {
    public static void main(String[] args) {
        try (Connection con = CreateConnection.dbConnect();
             Statement st = con.createStatement()) {

            // Define the SQL INSERT statement
            String sql = "INSERT INTO customers (id, name, email) VALUES (101, 'John Doe',
'john@example.com')";

            // Execute the SQL statement to insert the new customer record
            int rowsAffected = st.executeUpdate(sql);  // Use 'st' instance, not 'Statement'

            if (rowsAffected > 0) {
                System.out.println("New customer record inserted successfully.");
            } else {
                System.out.println("Insertion failed.");
            }
        } catch (SQLException e) {
            e.printStackTrace();
        }
    }
```



}

2. Write a program to delete data of a customer from database.

use customer data and perform database connectivity operation.

delete records using customer ID.

```
package jdbcpkg;

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.SQLException;
import java.sql.Statement;

public class CustomerDeletionUsingStatement {
    public static void main(String[] args) {
        try (Connection con = CreateConnection.dbConnect();
         Statement st = con.createStatement();) {


            // Define the SQL DELETE statement to delete a customer by ID (e.g., ID 101)
            String sql = "DELETE FROM customers WHERE id = 101";
```

```
            // Execute the SQL statement to delete the customer record
            int rowsAffected = st.executeUpdate(sql);

            if (rowsAffected > 0) {
                System.out.println("Customer record deleted successfully.");
            } else {
                System.out.println("Deletion failed. Customer not found.");
            }
        } catch (SQLException e) {
            e.printStackTrace();
        }
    }
}
```