## 1. Create a Java program using JDBC to insert a new product into the Products table.

```
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.SQLException;
public class ProductInsertion {
private static final String URL = "jdbc:mysql://localhost:3306/your_database";
private static final String USER = "your username";
private static final String PASSWORD = "your_password";
private static Connection connection;
private static PreparedStatement preparedStatement;
public static void main(String[] args) {
String productName = "New Product";
double price = 10.99;
int quantity = 100;
try {
connection = DriverManager.getConnection(URL, USER, PASSWORD);
String sql = "INSERT INTO Products (ProductName, Price, Quantity) VALUES
(?,?,?)";
preparedStatement = connection.prepareStatement(sql);
preparedStatement.setString(1, productName);
preparedStatement.setDouble(2, price);
preparedStatement.setInt(3, quantity);
int rowsAffected = preparedStatement.executeUpdate();
if (rowsAffected > 0) {
```

```
System.out.println("Product inserted successfully.");
} else {
System.out.println("Failed to insert product.");
}
} catch (SQLException e) {
e.printStackTrace();
} finally {
try {
if (preparedStatement != null) {
preparedStatement.close();
}
if (connection != null) {
connection.close();
}
} catch (SQLException e) {
e.printStackTrace();
}
}
}
```

}