```java
package com.jtc.preparedStatement;

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

public class PreparedStatement_sql {
    public static void main(String[] args) {
        Connection con = null;
        PreparedStatement ps = null;
        ResultSet rs = null;
        try {
            /*int id = Integer.parseInt(args[0]);
            String name = args[1];
            int phone = Integer.parseInt(args[2]);
            String city = args[3];*/

Class.forName("com.mysql.cj.jdbc.Driver");
con = DriverManager.getConnection("jdbc:mysql://@localhost:3306/demo",
    "root", "Mysql@1234");
            // String sql = "insert into student values(?,?,?,?)";
            // ps = con.prepareStatement(sql);

            String sql1 = "select * from student";
            ps = con.prepareStatement(sql1);
            rs = ps.executeQuery();

while(rs.next()) {
    int ids = rs.getInt("id");
    String names = rs.getString("name");
    int phones = rs.getInt("phone");
    String cities = rs.getString("city");
    System.out.println(ids+"\t"+names+"\t"+phones+"\t"+cities);
}

            /*ps.setInt(1, id);
            ps.setString(2, name);
            ps.setInt(3, phone);
            ps.setString(4, city);

            int i = ps.executeUpdate();
            System.out.println(i);*/
        } catch (Exception e) {
            e.printStackTrace();
        } finally {
            try {
                if (con != null)
                        con.close();
                if (ps != null)
```

```
51                      ps.close();
52                 if(rs != null)
53                      rs.close();
54           } catch (Exception e2) {
55               e2.printStackTrace();
56           }
57        }
58     }
59 }
```

```java
package com.jtc.preparedStatement;

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

public class PreparedStatement_sql_int_int {
    public static void main(String[] args) {
        Connection con = null;
        PreparedStatement ps = null;
        ResultSet rs = null;
        try {
            Class.forName("com.mysql.cj.jdbc.Driver");
        con = DriverManager.getConnection("jdbc:mysql://@localhost:3306/demo",
            "root", "Mysql@1234");

            String sql = "select * from student";
        ps = con.prepareStatement(sql, ResultSet.TYPE_SCROLL_INSENSITIVE,
            ResultSet.CONCUR_UPDATABLE);
            rs = ps.executeQuery();

            int id = 102;
            String city = "America";

            while (rs.next()) {
                if (rs.getInt("id") == id) {
                    rs.updateString("city", city);
                    rs.updateRow();
                    break;
                }
            }
        } catch (Exception e) {
            e.printStackTrace();
        } finally {
            try {
                if (con != null)
                    con.close();
                if (ps != null)
                    ps.close();
                if (rs != null)
                    rs.close();
            } catch (Exception e2) {
                e2.printStackTrace();
            }
        }
    }
}
```

```java
package com.jtc.preparedStatement_batchupdate;

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;

public class PreparedStatement_BatchUpdate {
    public static void main(String[] args) {
        Connection con = null;
        PreparedStatement ps =null;
Object object[][] = {{107, "Apple", 934532, "America"},
    {108, "Ball", 46834236,"Ballarpur"},
    {109, "Cat", 80247893, "California"},
    {110, "Dog", 68795198, "Darjeeling"}};

        try {
Class.forName("oracle.jdbc.driver.OracleDriver");
con = DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:XE",
    "sys as sysdba", "Myoracle@1234");
            String sql = "insert into student values(?,?,?,?)";
            ps = con.prepareStatement(sql);
            for(Object [] obj : object) {
                ps.setInt(1, (int)obj[0]);
                ps.setString(2, (String)obj[1]);
                ps.setInt(3, (int)obj[2]);
                ps.setString(4, (String)obj[3]);
                ps.addBatch();
            }
            int[] i = ps.executeBatch();
            for(int ii :i) {
                System.out.println(ii);
            }

        } catch (Exception e) {
            e.printStackTrace();
        }finally {
            try {
                if(con != null)
                    con.close();
                if(ps != null)
                    ps.close();
            } catch (Exception e2) {
                e2.printStackTrace();
            }
        }
    }
}
```