Homework 02-14

Statement vs PreparedStatement vs CallableStatement

Statement: Used to execute normal SQL queries.

PreparedStatement is used to execute parameterized or dynamic SQL queries.

```sql
select * from STUDENT where ID = ?;
// where '?' is called Parameter Index or Place Holder
```

CallableStatement is an interface in JDBC API which is used to call the stored procedures from the Java code.

Stored procedures: a set of SQL statements to be executed to perform a specific task on a database.
i.e.

```sql
CREATE OR REPLACE PROCEDURE P1 AS
BEGIN
INSERT INTO STUDENT VALUES(123, 'RAHUL', 'SHARMA', 'FIRST');
UPDATE STUDENT SET FIRST_NAME = 'KIRAN' WHERE ID = 123;
END;
```

```java
        CallableStatement cstmt = null;
          try {
              String URL = "URL";
              String username = "username";
              String password = "password";
              cstmt = con.prepareCall("{call P1}");
              cstmt.execute();
          } catch (SQLException e)
          {
              e.printStackTrace();
          }
```