**1) Creating new db on sql**

create database kp;  
use kp;  
show databases;  
create table products(  
   id INT,  
   name VARCHAR(100) ,  
   descp text,  
   cost INT  
);  
INSERT INTO products ( id, name, descp,cost ) VALUES( 111, "book","hardbind", 35);  
INSERT INTO products ( id, name, descp,cost ) VALUES( 222, "pencil","color", 20);  
INSERT INTO products ( id, name, descp,cost ) VALUES( 333, "crayons","set", 50);  
INSERT INTO products ( id, name, descp,cost ) VALUES( 444, "writing pad","hard", 40);  
select \* from products;

**2) Connecting new database to java**

**package** com.lulu.database.Systematic2;

**import** java.sql.Connection;

**import** java.sql.DriverManager;

**import** java.sql.ResultSet;

**import** java.sql.Statement;

**public** **class** DatabaseConnect {

**public** **static** **void** main(String[] args) {

    // **TODO** Auto-generated method stub

**try** {

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

           Connection connection = DriverManager.*getConnection*("jdbc:mysql://localhost:3306/kp",

               "root", "password");

           Statement statement;

           statement = connection.createStatement();

           ResultSet resultSet;

           resultSet = statement.executeQuery(

               "select \* from products");

**int** id;

           String name;

           String descp;

**int** cost;

**while** (resultSet.next()) {

               id = resultSet.getInt("id");

               name = resultSet.getString("name");

               descp=resultSet.getString("descp");

               cost = resultSet.getInt("cost");

               System.***out***.println("id : " + id

                                  + " name : " + name + " description :"+ descp + "id : " + id);

           }

      }**catch**(Exception E) {

      }

  }

}

**3) ConnectDB**

**package** com.lulu.database.Systematic2;

**import** java.sql.Connection;

**import** java.sql.DriverManager;

**public** **class** ConnectDB {

**static** Connection *connection*;

**static** Connection setupConnection() {

**try** {

       Class.*forName*("com.mysql.cj.jdbc.Driver");//drive support sets up

*connection* = DriverManager.*getConnection*("jdbc:mysql://localhost:3306/kp",

              "root", "password");

    }

**catch**(Exception E) {

    }

**return** *connection*;

  }

}

**4) Business Logic**

**package** com.lulu.database.Systematic2;

**import** java.sql.Connection;

**import** java.sql.PreparedStatement;

**import** java.sql.ResultSet;

**import** java.sql.SQLException;

**import** java.sql.Statement;

**import** com.lulu.database.Systematic.ConnectDB;

**public** **class** BusinessLogic {

**void** createData() **throws** SQLException {

    Connection connection = ConnectDB.*setupConnection*();

    String query ="INSERT INTO products ( id, name, descp,cost ) VALUES( ?, ?,?,?)";

//    String query = "insert values into employee(? ,? ,?)  ";

    PreparedStatement myStmt = connection.prepareStatement(query);

    myStmt.setInt(1, 666);

    myStmt.setString(2, "pouch");

    myStmt.setString(3, "colored");

    myStmt.setInt(4, 45);

**int** success = myStmt.executeUpdate();

    System.***out***.println("Added Successfully " + success);

    }

**void** readData() **throws** SQLException {

      Connection connection=ConnectDB.*setupConnection*();

       Statement statement;

       statement = connection.createStatement();

          ResultSet resultSet;

          resultSet = statement.executeQuery(

              "select \* from products where id>=111");

**int** id;

          String name;

          String descp;

**int** cost;

**while** (resultSet.next()) {

              id = resultSet.getInt("id");

              name = resultSet.getString("name");

              descp=resultSet.getString("descp");

              cost = resultSet.getInt("cost");

              System.***out***.println("id : " + id

                        + " name : " + name + " description :"+ descp + " id : " + id);

          }

  }

**void** updateData() **throws** SQLException {

      Connection connection = ConnectDB.*setupConnection*();

      String query = "update products set name = ? where id = ? ";

      PreparedStatement myStmt = connection.prepareStatement(query);

      myStmt.setString(1, "paint");

      myStmt.setInt(2, 555);

**boolean** success = myStmt.execute();

      System.***out***.println("Updated Successfully " + success);

    }

**void** deleteData() **throws** SQLException {

      Connection connection = ConnectDB.*setupConnection*();

      String query = "delete from products where id = ? ";

      PreparedStatement myStmt = connection.prepareStatement(query);

      myStmt.setInt(1, 666);

**boolean** success = myStmt.execute();

      System.***out***.println("Deleted Successfully " + success);

    }

}

[Yesterday 10:09 am] Keertana Pandit

**5) ControllerTester**

**package** com.lulu.database.Systematic2;

**import** java.sql.SQLException;

**public** **class** ContollerTester {

**public** **static** **void** main(String[] args) **throws** SQLException {

      // **TODO** Auto-generated method stub

      BusinessLogic bl = **new** BusinessLogic();

      bl.createData();

      bl.readData();

      bl.updateData();

      bl.deleteData();

    }

}