STATE UNIVERSITY OF ZANZIBAR

SCHOOL OF BUSINESS

MOBILE APPLICATION DEVELOPMENT

(ADVANCED WEBSITE PROGRAMMING)

LAB EXAM

Registration no:	**BITA/2/18/019/TZ**
Name:	**SUHAILA LAHDAD**
Email:	**suhailalahdad@gmail.com**
Github Username:	**Bint-Lahdad**
Question no:	**3**

1   CREATE DATABASE:

```
Enter password: ***
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 4
Server version: 5.1.73-community MySQL Community Server (GPL)

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owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> show databases;
+--------------------+
| Database           |
+--------------------+
| information_schema |
| mysql              |
| test               |
+--------------------+
3 rows in set (0.00 sec)

mysql> create database bitam;
Query OK, 1 row affected (0.01 sec)
```

```
mysql> use bitam;
Database changed
mysql> create table wanafunzi(
    -> id int primary key auto_increment not null,
    -> name varchar(20) not null,
    -> regno varchar(33) not null,
    -> grade varchar(15) not null,
    -> phone varchar(15) not null,
    -> email varchar(40) not null,
    -> gender varchar(10) not null,
    -> semester_info varchar(20) not null);
Query OK, 0 rows affected (0.20 sec)
```

2   WEB.XML CODES:

```xml
<web-app xmlns="http://xmlns.jcp.org/xml/ns/javaee"
         xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/javaee
http://xmlns.jcp.org/xml/ns/javaee/web-app_4_0.xsd"
         version="4.0">
```

```xml
<servlet>
    <servlet-name>examServlet</servlet-name>
    <servlet-class>examServlet</servlet-class>
</servlet>
<servlet-mapping>
    <servlet-name>examServlet</servlet-name>
    <url-pattern>/examServlet</url-pattern>
</servlet-mapping>
<servlet>
    <servlet-name>displayServlet</servlet-name>
    <servlet-class>displayServlet</servlet-class>
</servlet>
<servlet-mapping>
    <servlet-name>displayServlet</servlet-name>
    <url-pattern>/displayServlet</url-pattern>
</servlet-mapping>
</web-app>
```

3   INDEX.JSP:

STUDENT REGISTRATION FORM

Name: [_____]

Registration No: [_____]

Grade: [_____]

Phone Number: [_____]

Email-ID: [_____]

○ Male

○ Female

Semester Information: [First ▾]

[submit] [reset]

```jsp
<%--
  Created by IntelliJ IDEA.
  User: Bint-Lahdad
  Date: 16-Jul-20
  Time: 11:22 AM
  To change this template use File | Settings | File
```

```jsp
    Templates.
    --%>
<%@ page contentType="text/html;charset=UTF-8"
language="java" %>
<html>
  <head>
    <title>LabExam</title>
  </head>
  <body>
<H1>STUDENT REGISTRATION FORM</H1>
  <form action="examServlet" method="post">
    <p><label>Name: <input type="text" name="name"
required=""></label></p>
    <p><label>Registration No: <input type="text" name="regno"
required=""></label></p>
    <p><label>Grade: <input type="text" name="grade"
required=""></label></p>
    <p><label>Phone Number: <input type="text" name="phone"
required=""></label></p>
    <p><label>Email-ID: <input type="email" name="email"
required=""></label></p>
    <p><label><input type="radio" name="gender"
value="gender">Male </label></p>
    <p><label><input type="radio" name="gender"
value="gender">Female </label></p>
      <p><label>Semester Information:<select name="info" >
        <option name="info">First</option>
        <option name="info">Second</option>
        <option name="info">Third</option>
      </select></label></p>
      <p><label>
        <input type="submit" value="submit">
        <input type="reset" value="reset">
      </label></p>
  </form>
  </body>
</html>
```

4   EXAM SERVLET:

```java
import javax.servlet.annotation.WebServlet;
import java.io.IOException;
import java.io.PrintWriter;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.Statement;

@WebServlet(name="examServlet")
public class examServlet extends javax.servlet.http.HttpServlet
{
    static final String JDBC_DRIVER ="com.mysql.jdbc.Driver";
    static final String DB_URL =
"jdbc:mysql://localhost:3306/bitam";
    static final String DB_USER ="root";
    static final String DB_PASS ="123";

    void processRequest(javax.servlet.http.HttpServletRequest
request, javax.servlet.http.HttpServletResponse response)
throws javax.servlet.ServletException, IOException {
        response.setContentType("text/html");
        PrintWriter out= response.getWriter();

        String name = request.getParameter("name");
        String regno = request.getParameter("regno");
        String grade = request.getParameter("grade");
        String phone = request.getParameter("phone");
        String email = request.getParameter("email");
        String gender = request.getParameter("gender");
        String info = request.getParameter("info");

        try{

            //registr
            Class.forName("JDBC_DRIVER");
            //connection
            Connection conn =
DriverManager.getConnection(DB_URL,DB_USER,DB_PASS);
            //SQL statements
```

```java
            Statement stmt=conn.createStatement();
            String sql = "INSERT INTO bitam
(name,regno,grade,phone,email,gender,info) VALUES
('"+name+"','"+regno+"','"+grade+"','"+phone+"','"+email+"','"+
gender+"','"+info+"')";
            int outi = stmt.executeUpdate(sql);
            stmt.close();
            conn.close();

        } catch (Exception e) {
            e.printStackTrace();
        }
        finally {
            //finally
        }
    }
    protected void doPost(javax.servlet.http.HttpServletRequest
request, javax.servlet.http.HttpServletResponse response)
throws javax.servlet.ServletException, IOException {
        processRequest(request,response);
    }

    protected void doGet(javax.servlet.http.HttpServletRequest
request, javax.servlet.http.HttpServletResponse response)
throws javax.servlet.ServletException, IOException {
        processRequest(request,response);
    }
}
```

5   DISLAP SERVLET:

```java
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import java.io.IOException;

@WebServlet(name = "displayServlet")
public class displayServlet extends HttpServlet {
```

```java
    protected void doPost(HttpServletRequest request,
HttpServletResponse response) throws ServletException,
IOException {

    }

    protected void doGet(HttpServletRequest request,
HttpServletResponse response) throws ServletException,
IOException {

    }
}
```