

EXPERIMENT NUMBER –3.2

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CLASS AND GROUP – CSE-20IOT1

SEMESTER – 3rd

1. TOPIC OF EXPERIMENT –

Use Network package to develop networking applications like client Server application.

2. AIM OF THE EXPERIMENT -

Create a simple HTML form containing a Text field and a Button. By clicking on submit button, servlet is opened displaying a simple Hello message with the name entered in the Text field.

3. PROGRAM CODE -

//JAVA CODE

```
import java.io.*;
```

```
import java.sql.*;
```

```
import jakarta.servlet.*;
```

```
import jakarta.servlet.http.*;
```

```
public class Register extends HttpServlet {  
    public void doPost(HttpServletRequest request, HttpServletResponse  
        response)
```

```
        throws ServletException, IOException {
```

```
        response.setContentType("text/html");
```

```
        PrintWriter out = response.getWriter();
```

```
        String n=request.getParameter("userName");
```

```
        String p=request.getParameter("userPass");
```

```
        try{
```

```
            Class.forName("oracle.jdbc.driver.OracleDriver");
```

```
            Connection con=DriverManager.getConnection(  
                "jdbc:oracle:thin:@localhost:1521:xe","system","oracle");
```

```
            PreparedStatement ps=con.prepareStatement(  
                "insert into registeruser values(?,?,?,?)");
```

```
ps.setString(1,n);
ps.setString(2,p);
ps.setString(3,e);
ps.setString(4,c);

int i=ps.executeUpdate();
if(i>0)
out.print("You are successfully registered...");

}catch (Exception e2) {System.out.println(e2);}

out.close();
}

}

//XML CODE

<web-app>

<servlet>
<servlet-name>Register</servlet-name>
<servlet-class>Register</servlet-class>
</servlet>

<servlet-mapping>
<servlet-name>Register</servlet-name>
<url-pattern>/servlet/Register</url-pattern>
</servlet-mapping>

<welcome-file-list>
    <welcome-file>register.html</welcome-file>
</welcome-file-list>

</web-app>
```

//HTML CODE

```
<html>
<body>
<form action="servlet/Register" method="post">
Name:<input type="text" name="Name"/><br/><br/>
Password:<input type="password" name="userPass"/>
<br/><br/>
<input type="submit" value="register"/>
</form>
</body>
</html>
```

4. ERRORS ENCOUNTERED DURING PROGRAM'S EXECUTION

(Kindly jot down the compile time errors encountered) -

Semi-colon missing in few statements.

Double quotes not closed

Comma not used.

5. PROGRAMS' EXPLANATION (in brief) -

In this page, we have getting input from the user using text fields and combobox. The information entered by the user is forwarded to Register servlet, which is responsible to store the data into the database.

This servlet class receives all the data entered by user and stores it into the database. Here, we are performing the database logic. But you may separate it, which will be better for the web application.

The XML file is the configuration file, providing information about the servlet.

6. OUTPUT-

Name:

Password:



7. LEARNING OUTCOMES-

1. Identify situations where computational methods would be useful.
2. Approach the programming tasks using techniques learnt and write pseudo-code.
3. Choose the right data representation formats based on the requirements of the problem.
4. Use the comparisons and limitations of the various programming constructs and choose the right one for the task.

EVALUATION COLUMN (To be filled by concerned faculty only)

Sr. No.	Parameters	Maximum Marks	Marks Obtained
1.	Worksheet Completion including writing learning objective/ Outcome	10	
2.	Post Lab Quiz Result	5	
3.	Student engagement in Simulation/ Performance/ Pre Lab Questions	5	
4.	Total Marks	20	