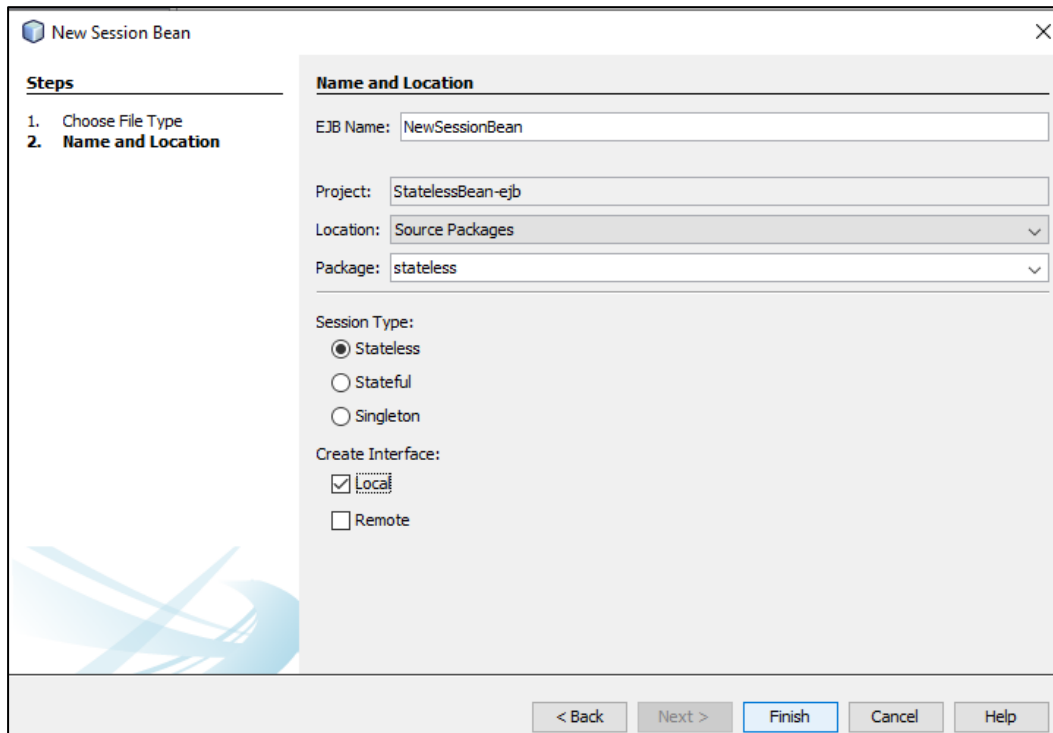


Practical No.: 6D

Aim: Demonstrate a program on Stateless Bean

File → New Project → JavaEE → Enterprise Application → Project Name: **StatelessBean** → Finish

Right Click on StatelessBean-ejb → New → Session Bean



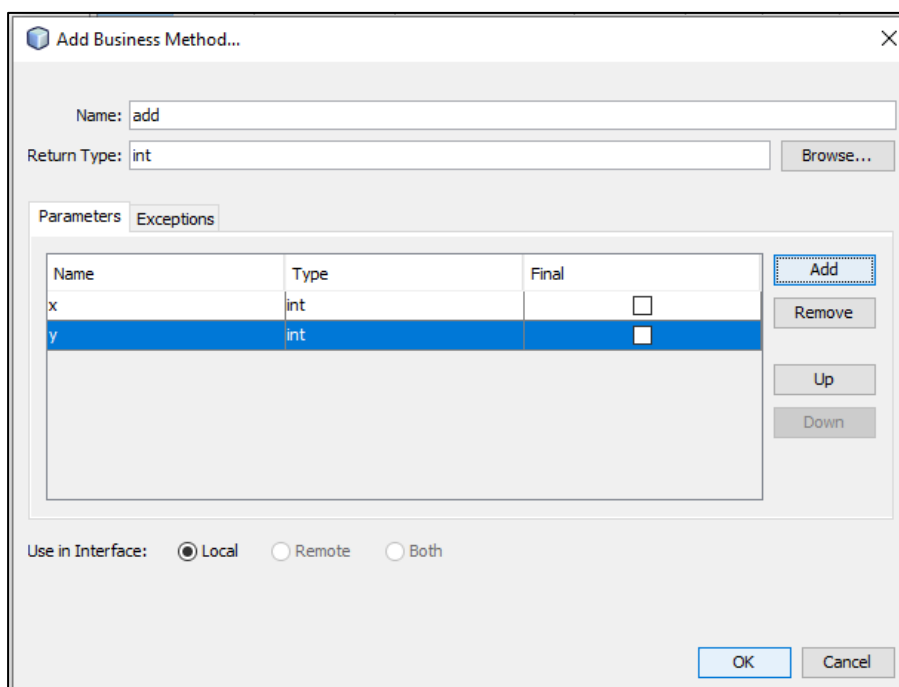
The 'New Session Bean' dialog box is shown. It has a 'Steps' section on the left with two steps: '1. Choose File Type' and '2. Name and Location'. The 'Name and Location' section is active. It contains the following fields and options:

- EJB Name:
- Project:
- Location:
- Package:
- Session Type:
 - ☒ Stateless
 - ☐ Stateful
 - ☐ Singleton
- Create Interface:
 - ☒ Local
 - ☐ Remote

At the bottom, there are buttons: '< Back', 'Next >', 'Finish', 'Cancel', and 'Help'.

NewSessionBean.java

Right Click on blank area in Class NewSessionBean → Insert Code → Add Business Method



The 'Add Business Method' dialog box is shown. It has the following fields and options:

- Name:
- Return Type:
- Parameters tab is selected. It contains a table with the following data:

Name	Type	Final
x	int	<input type="checkbox"/>
y	int	<input type="checkbox"/>

- Buttons: 'Add', 'Remove', 'Up', 'Down'.
- Use in Interface: ☒ Local ☐ Remote ☐ Both
- Buttons: 'OK', 'Cancel'.

Code:

```
package stateless;

import javax.ejb.Stateless;

/**
 *
 * @author TechnoBoy
 */
@Stateless
public class NewSessionBean implements NewSessionBeanLocal {

    @Override
    public int add(int x, int y) {
        return x+y;
    }
}
```

Right Click on **StatefullBean-war** → New → Servlet → Class Name: showData → Package: stateless

showData.java

```
package stateless;

import java.io.IOException;
import java.io.PrintWriter;
import javax.ejb.EJB;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

/**
 *
 * @author TechnoBoy
 */
public class showData extends HttpServlet {

    @EJB
    private NewSessionBeanLocal newSessionBean;

    protected void processRequest(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        response.setContentType("text/html;charset=UTF-8");
        try (PrintWriter out = response.getWriter()) {
            /* TODO output your page here. You may use following sample code. */
            out.println("<!DOCTYPE html>");
            out.println("<html>");
            out.println("<head>");
            out.println("<title>Servlet showData</title>");
            out.println("</head>");
            out.println("<body>");
        }
    }
}
```

```

        int a=Integer.parseInt(request.getParameter("no1"));
        int b=Integer.parseInt(request.getParameter("no2"));
        out.println("Addition : "+newSessionBean.add(a, b));
        out.println("</body>");
        out.println("</html>");
    }
}
@Override
protected void doGet(HttpServletRequest request, HttpServletResponse response)
    throws ServletException, IOException {
    processRequest(request, response);
}
@Override
protected void doPost(HttpServletRequest request, HttpServletResponse response)
    throws ServletException, IOException {
    processRequest(request, response);
}
@Override
public String getServletInfo() {
    return "Short description";
}
}

```

Right Click on **StatefullBean-war** → New → JSP → File Name: newjsp

Newjsp.jsp

```

<%--
    Document   : newjsp
    Created on : 20 Oct, 2019, 1:45:39 AM
    Author    : TechnoBoy
--%>

<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
    <head>
        <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
        <title>Stateless Session Bean</title>
    </head>
    <body>
        <h1>Stateless Session Bean</h1>
        <form action="showData" method="post">
            Enter No1 : <input type="number" name="no1"><br>
            Enter No2 : <input type="number" name="no2"><br>
            <input type="submit" value="add">
        </form>
    </body>
</html>

```

Output:

Right Click on StatelessBean(Enterprise Application Project) → Clean and Build → Deploy → Run



http://localhost:8080/StatelessBean-war/newjsp.jsp

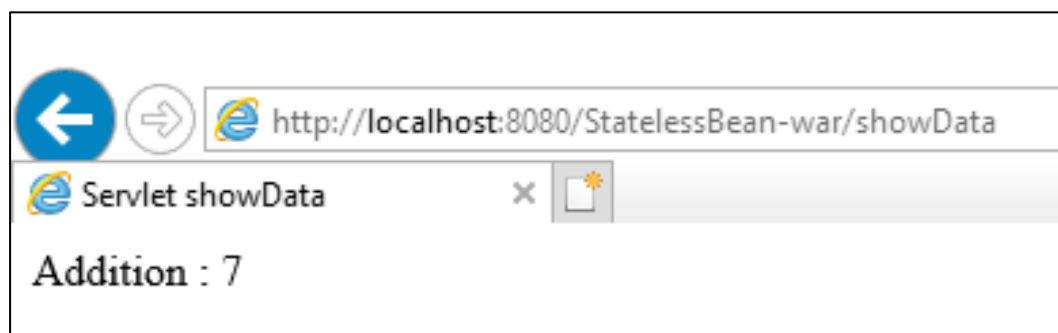
Stateless Session Bean

Stateless Session Bean

Enter No1 : 5

Enter No2 : 2

add



http://localhost:8080/StatelessBean-war/showData

Servlet showData

Addition : 7