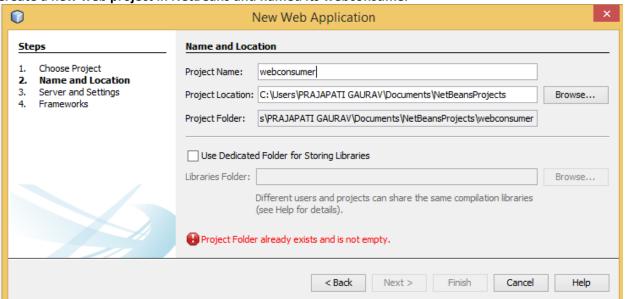
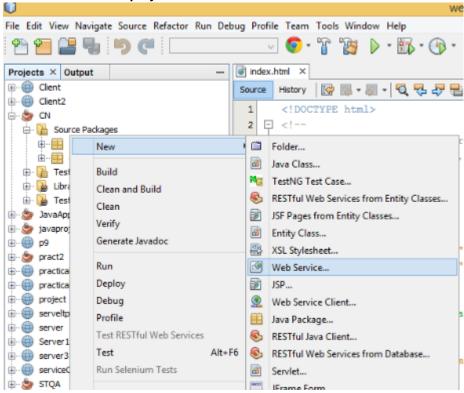
### **PRACTICAL:6**

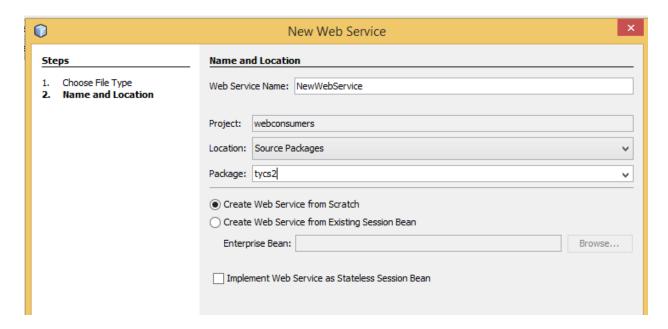
Aim: Write a JAX-WS web service to perform the following operations. Define a Servlet/JSP that continues the web service.

Create a new web project in NetBeans and named its webconsumer

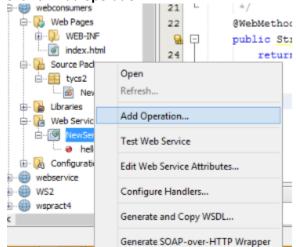


Add web service in a project.

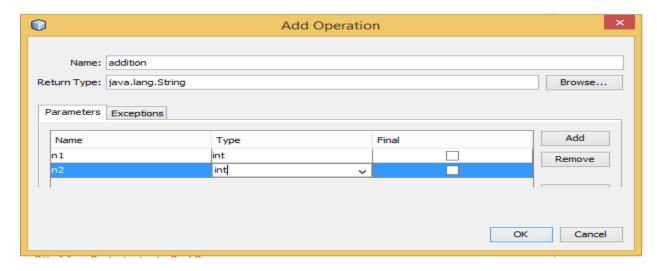




Click on Add operation.



Name the operation as addition add parameters n1,n2 .follow the same for subtraction, multiplication, division.



# Change the return type in code as per the operation.

```
| NewWebService.java × | index.html × | NewWebService.wsdl × | index.html × | newjsp.jsp × | jax-ws-catalog.xml × | Addition.java × | NewWebService | NewWebSe
```

### Create a new servlet file add a code in it

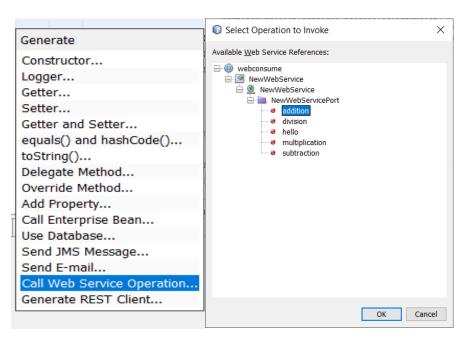
```
protected void processRequest(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
    response.setContentType("text/html;charset=UTF-8");
    try (PrintWriter out = response.getWriter()) {
        /* TODO output your page here. You may use following sample code. */
       out.println("<!DOCTYPE html>");
       out.println("<html>");
       out.println("<head>");
        out.println("<title>Servlet NewServlet</title>");
       out.println("</head>");
        out.println("<body>");
       out.println("<h1>Addition is :"+addition(Integer.parseInt(request.getParameter("n1")),Integer.parseInt(request.g
       out.println("<h1>substraction is :"+substraction(Integer.parseInt(request.getParameter("n1")),Integer.parseInt(r
       out.println("<h1>multiplicatin is :"+multiplication(Integer.parseInt(request.getParameter("n1")),Integer.parseIn
       out.println("<h1>division is :"+division(Integer.parseInt(request.getParameter("n1")),Integer.parseInt(request.getParameter("n1"))
       out.println("<h1>Servlet NewServlet at " + request.getContextPath() + "</h1>");
        out.println("</body>");
        out.println("</html>");
```

## Code:

out.println("<!DOCTYPE html>");

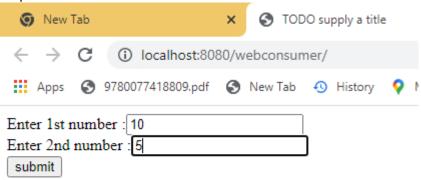
```
out.println("<html>");
      out.println("<head>");
      out.println("<title>Servlet NewServlet</title>");
      out.println("</head>");
      out.println("<body>");
      out.println("<h1>Addition is
:"+addition(Integer.parseInt(request.getParameter("n1")),Integer.parseInt(request.getParameter("n2")))
+"</h1>");
      out.println("<h1>substraction is
:"+substraction(Integer.parseInt(request.getParameter("n1")),Integer.parseInt(request.getParameter("n
2")))+"</h1>");
      out.println("<h1>multiplicatin is
:"+multiplication(Integer.parseInt(request.getParameter("n1")),Integer.parseInt(request.getParameter("
n2")))+"</h1>");
      out.println("<h1>division is
:"+division(Integer.parseInt(request.getParameter("n1")),Integer.parseInt(request.getParameter("n2")))
+"</h1>");
      out.println("<h1>Servlet NewServlet at " + request.getContextPath() + "</h1>");
      out.println("</body>");
      out.println("</html>");
```

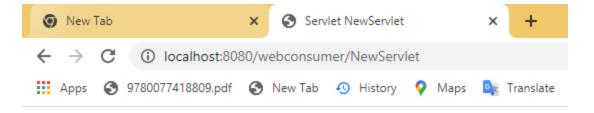
# Insert code in Servlet. Add the 4 operations.



```
HttpServlet methods. Click on the + sign on the left to edit the code.
 55
    +
 93
           private int addition(int n1, int n2) {
 94
               return n1+n2;
 96
 97
           private int division(int n1, int n2) {
 98
    return n1/n2;
100
101
           private int multiplication(int n1, int n2) {
102
               return n1*n2;
103
104
105
           private int substraction(int n1, int n2) {
106
107
               return n1-n2;
108
109
```

## Output:





Addition is:15

substraction is :5

multiplicatin is:50

division is :2

Servlet NewServlet at /webconsumer