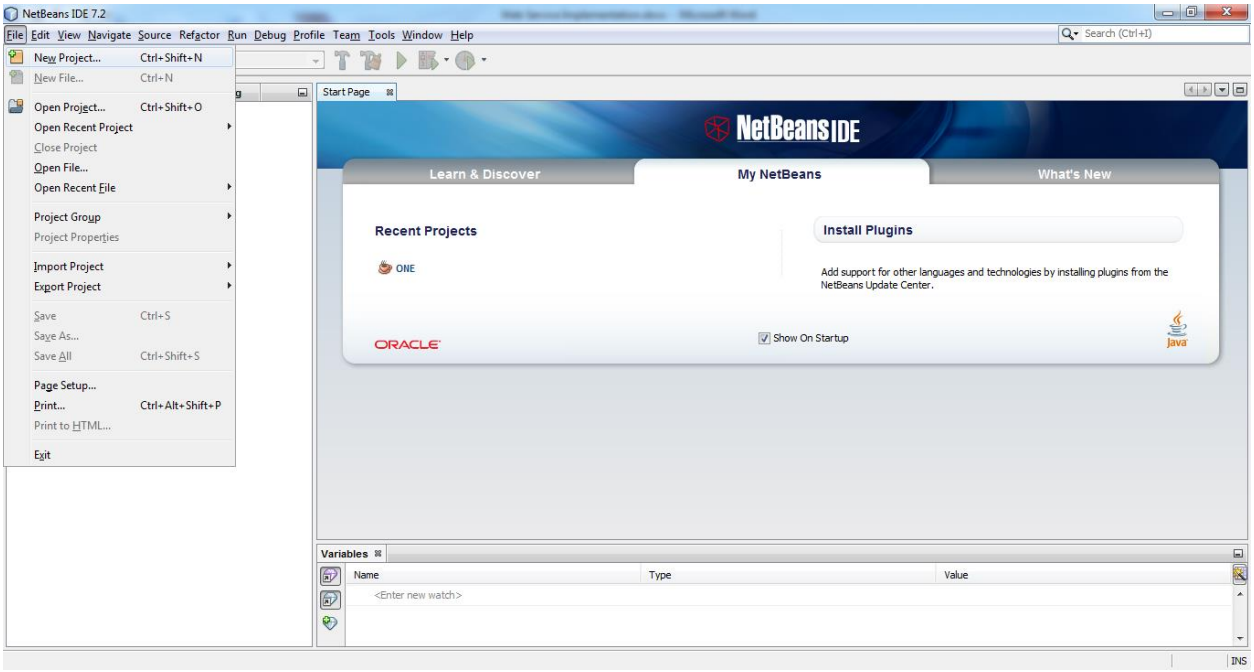
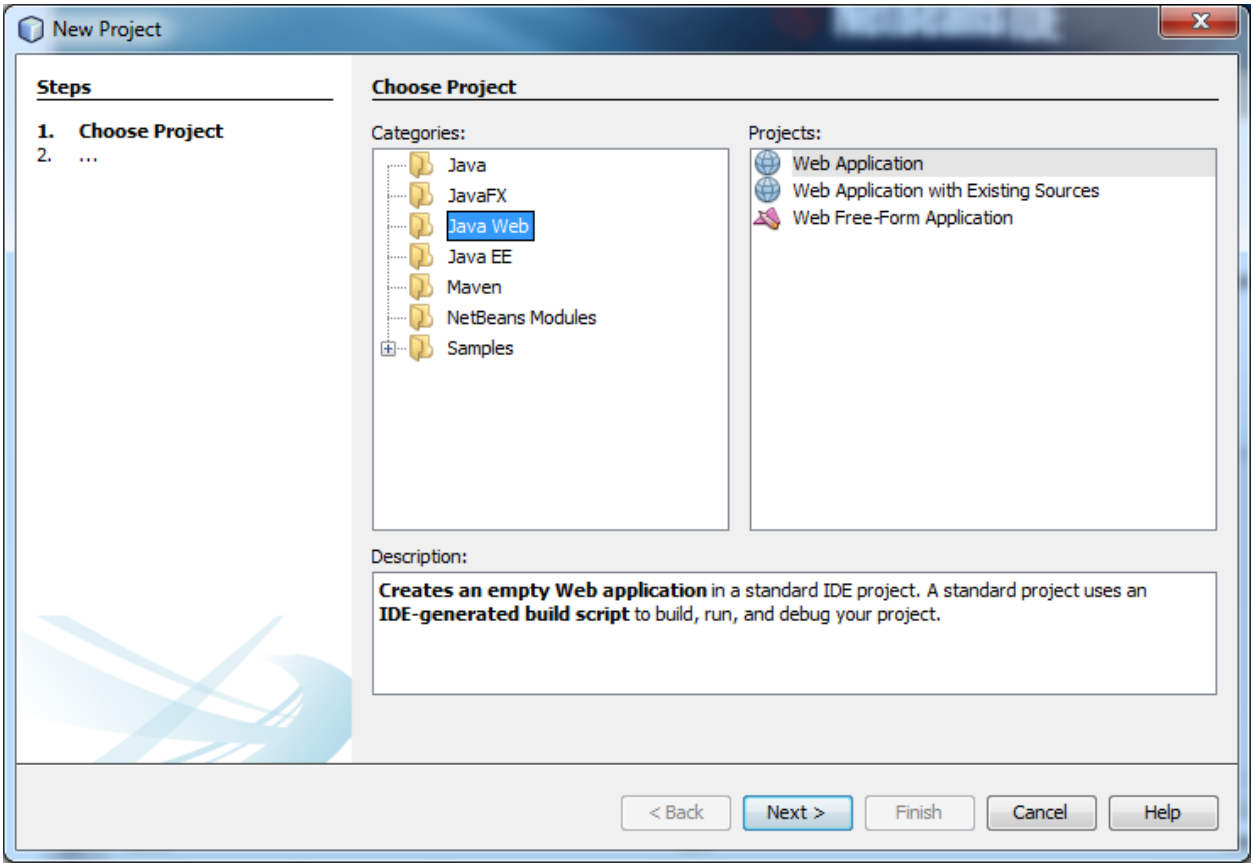
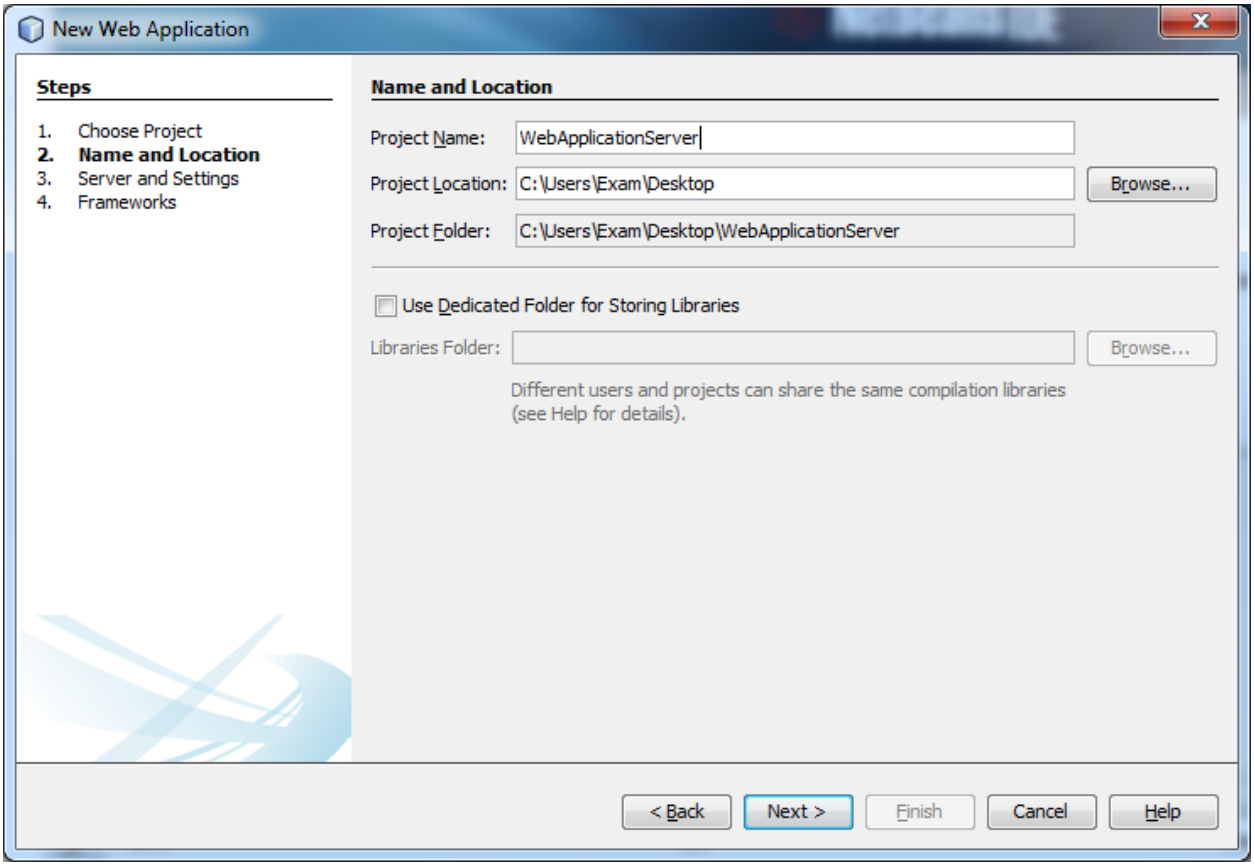
Practical 1 Web Service Implementation

1) Create Web Application in NetBeans

File > New Project > Java Web > Web Application



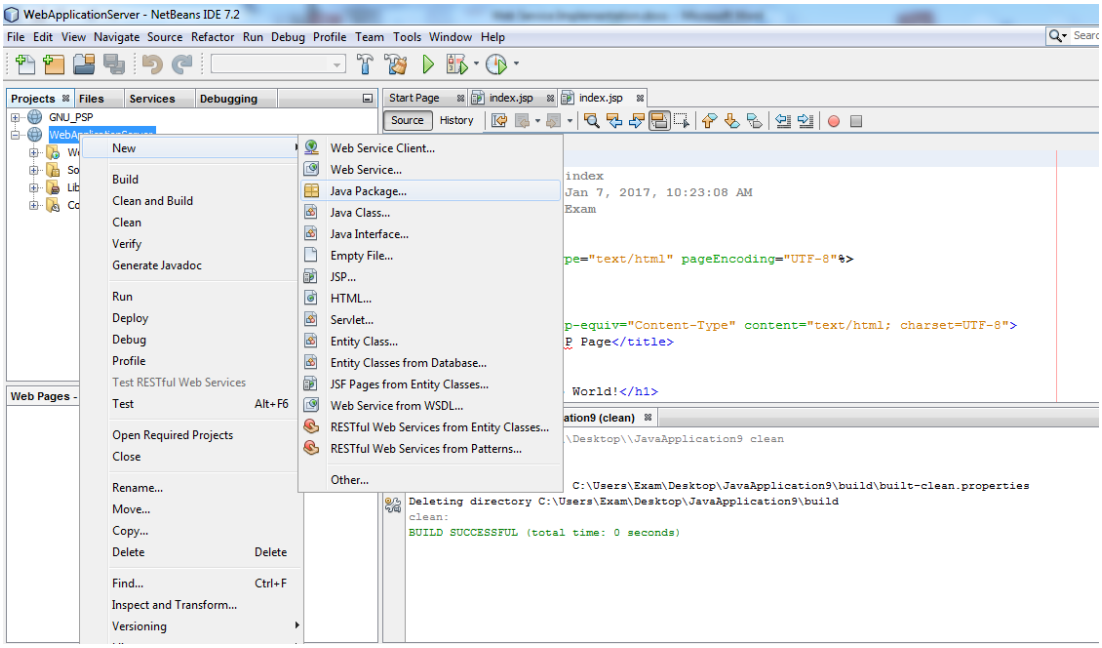




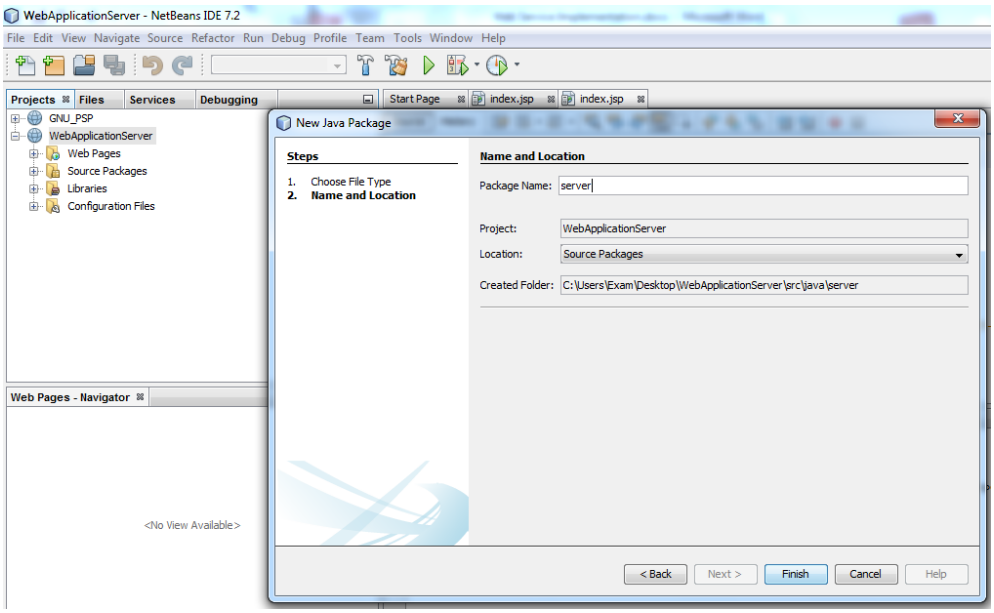
Click Next and Finish.

2) Create Java Packages from

Web Application > Source Packages > New > Java Package

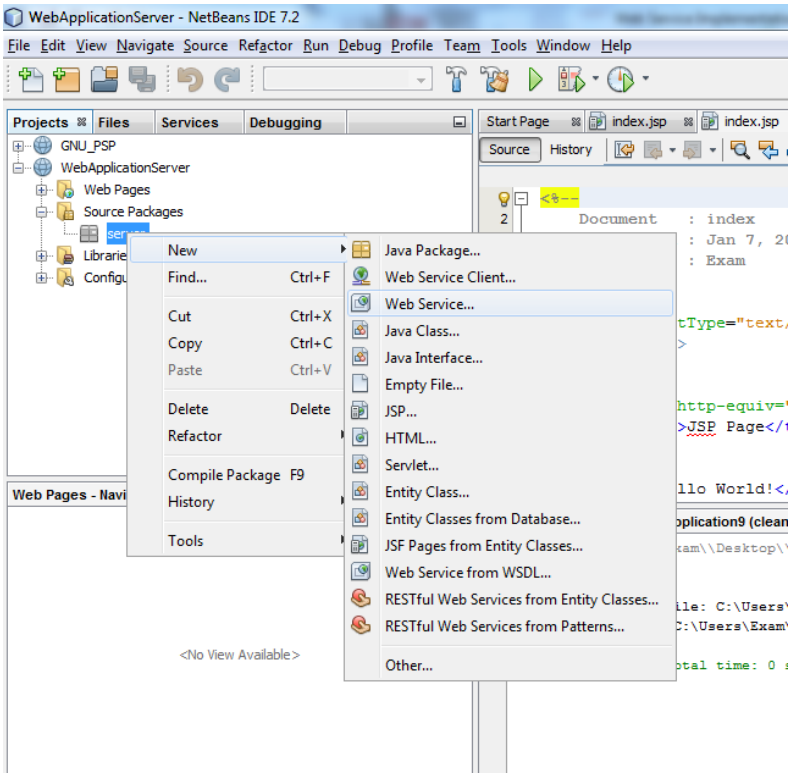


3) Specify Name of Java Package and click on Finish Button

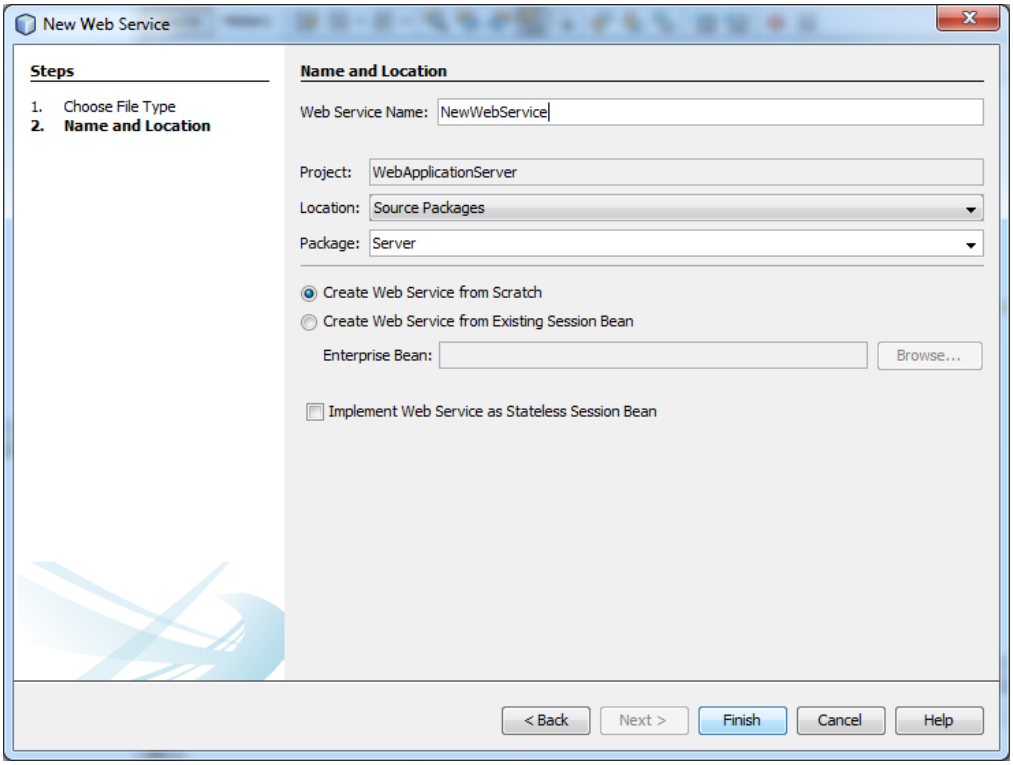


4) Right Click on Package and create web service

New > Web Service

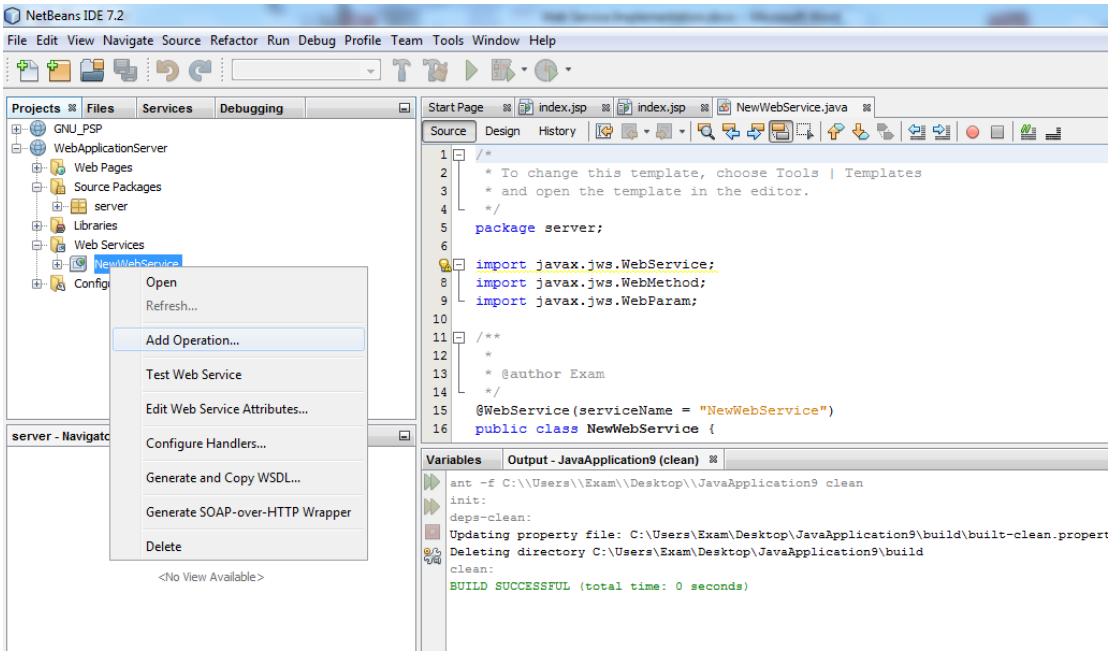


5) Specify Name of Web service and select Java Package



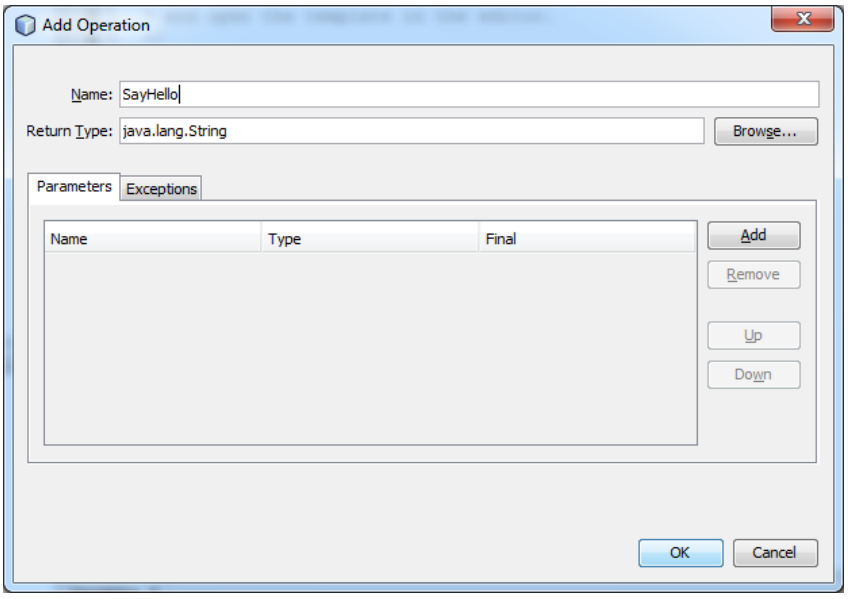
Web Services Folder is created

6) Under Web Services Folder Select Web service and Right click > Add Operation

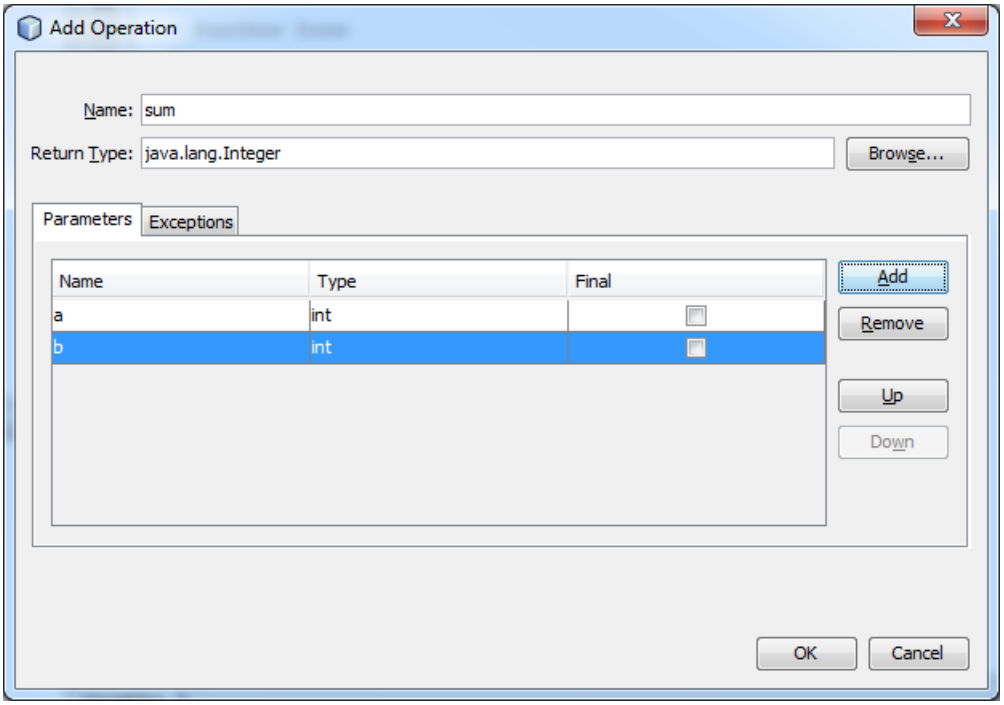


7) Add Operation

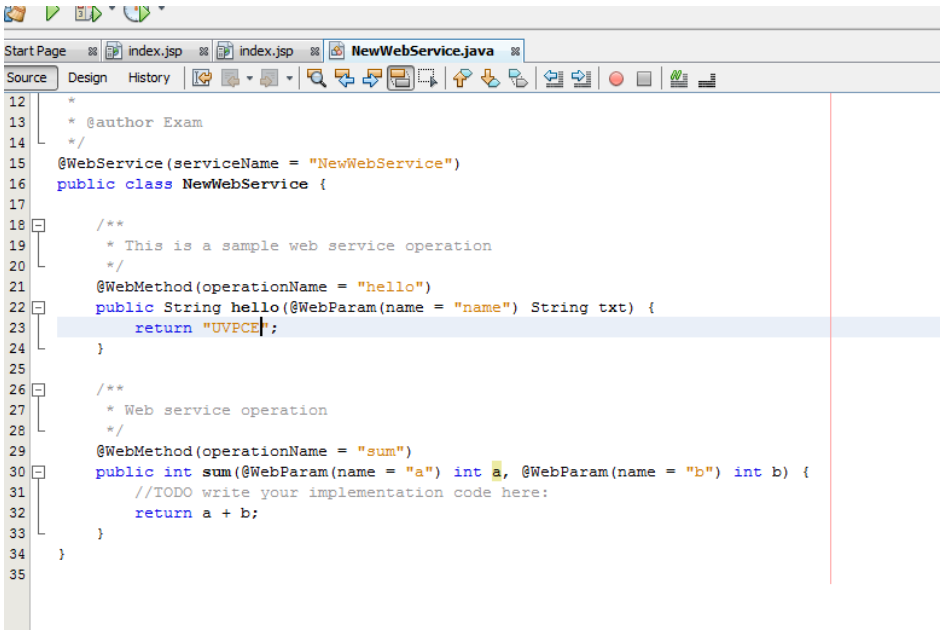
Specify Name of Operation and click on OK



8) You May also add operation with parameters

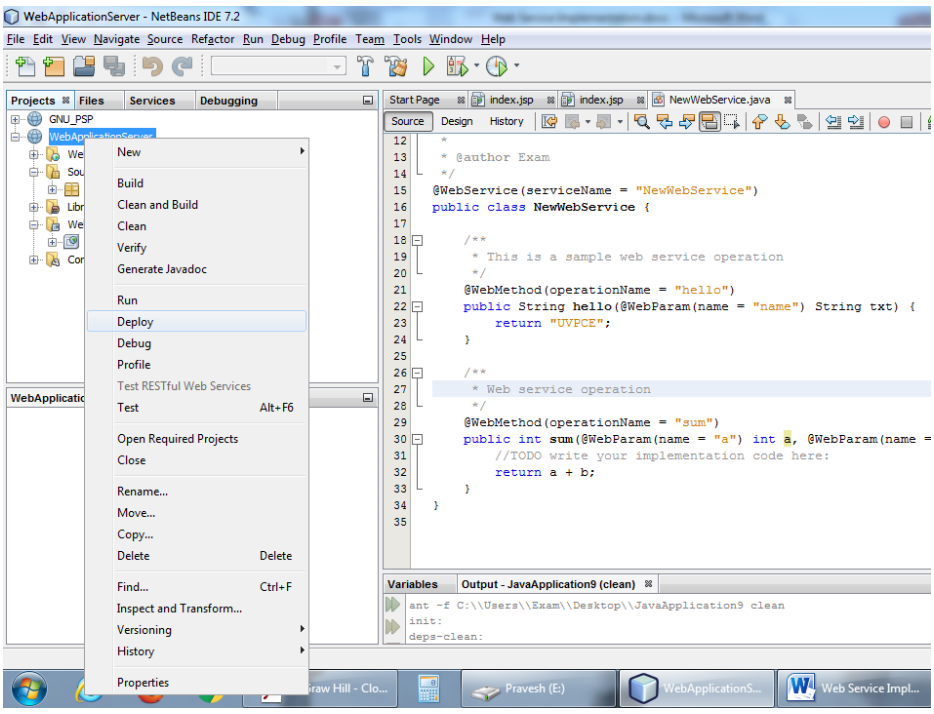


9) Modify Method according to requirement.. like I want to return string is UVPCE and perform sum operation then code

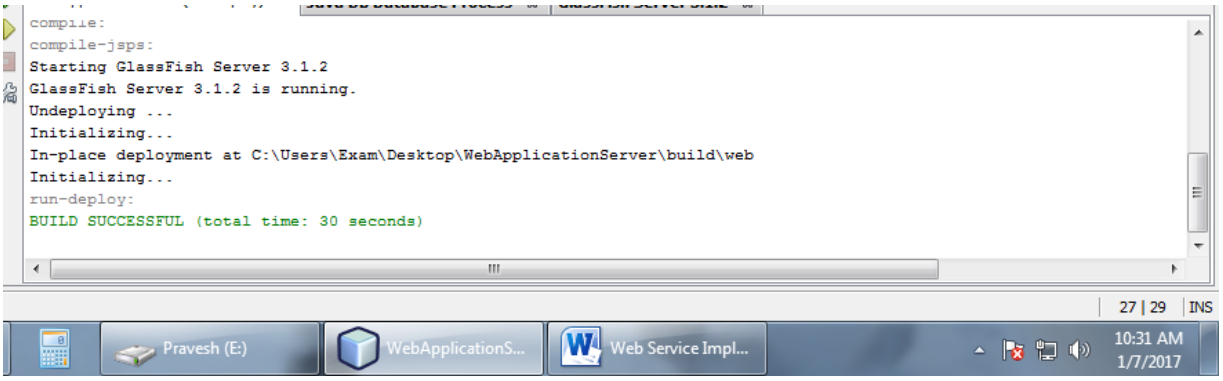


```
Start Page | index.jsp | index.jsp | NewWebService.java
Source | Design | History
12  *
13  * @author Exam
14  */
15 @WebService(serviceName = "NewWebService")
16 public class NewWebService {
17
18     /**
19      * This is a sample web service operation
20      */
21     @WebMethod(operationName = "hello")
22     public String hello(@WebParam(name = "name") String txt) {
23         return "UVPCE";
24     }
25
26     /**
27      * Web service operation
28      */
29     @WebMethod(operationName = "sum")
30     public int sum(@WebParam(name = "a") int a, @WebParam(name = "b") int b) {
31         //TODO write your implementation code here:
32         return a + b;
33     }
34 }
35
```

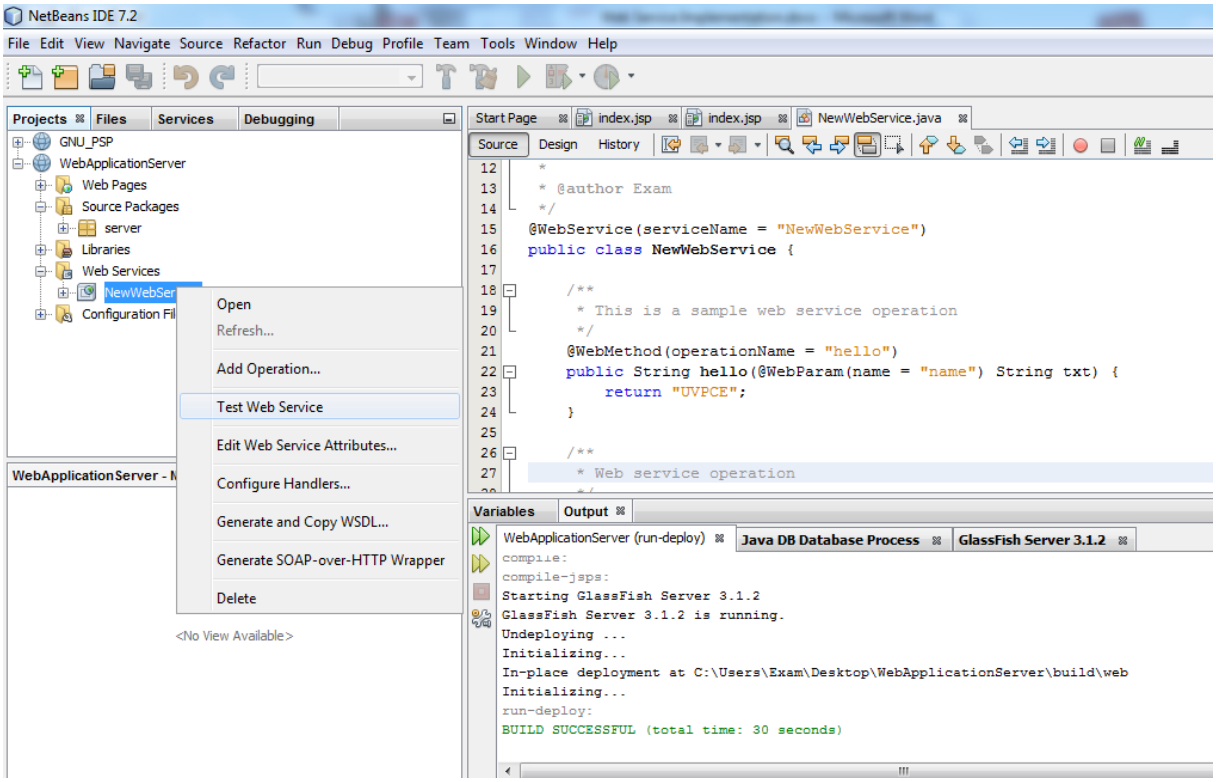
10) Deploy Project



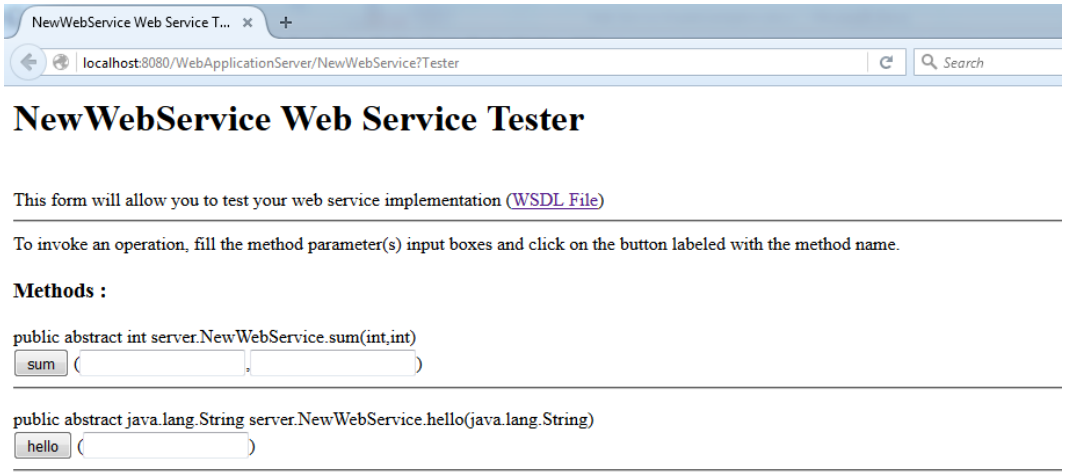
For Successful deployment



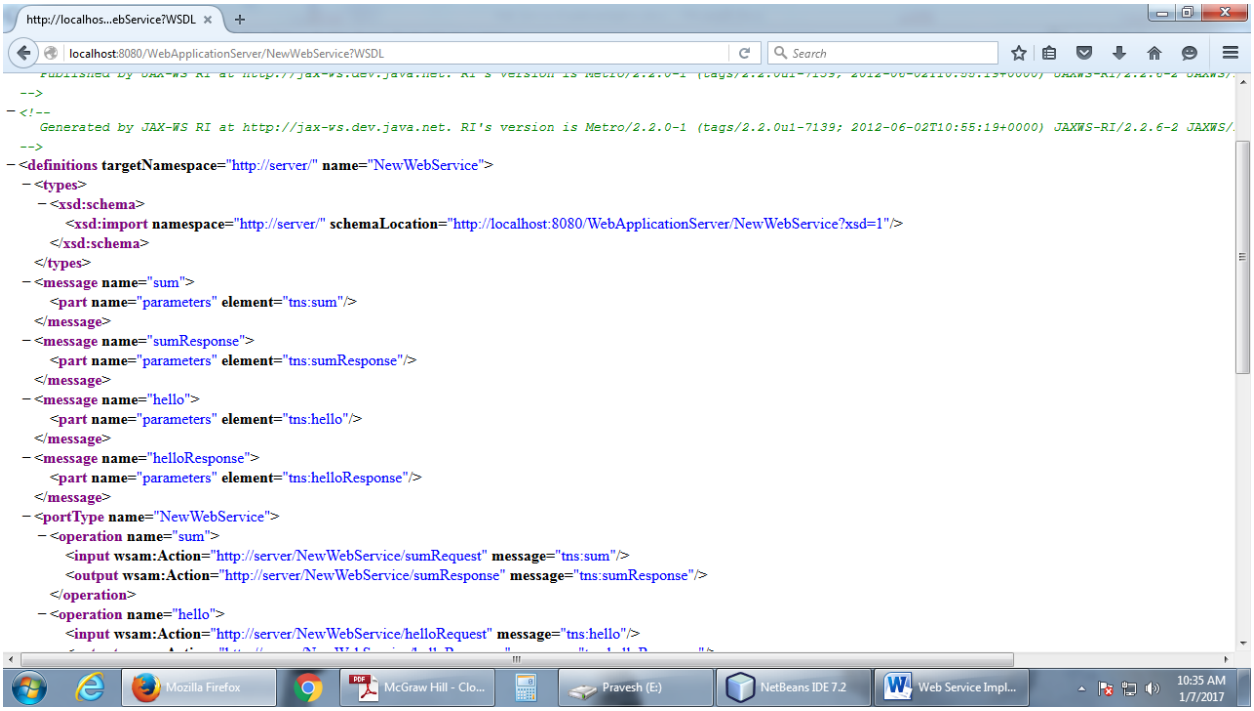
11) Test Web Service



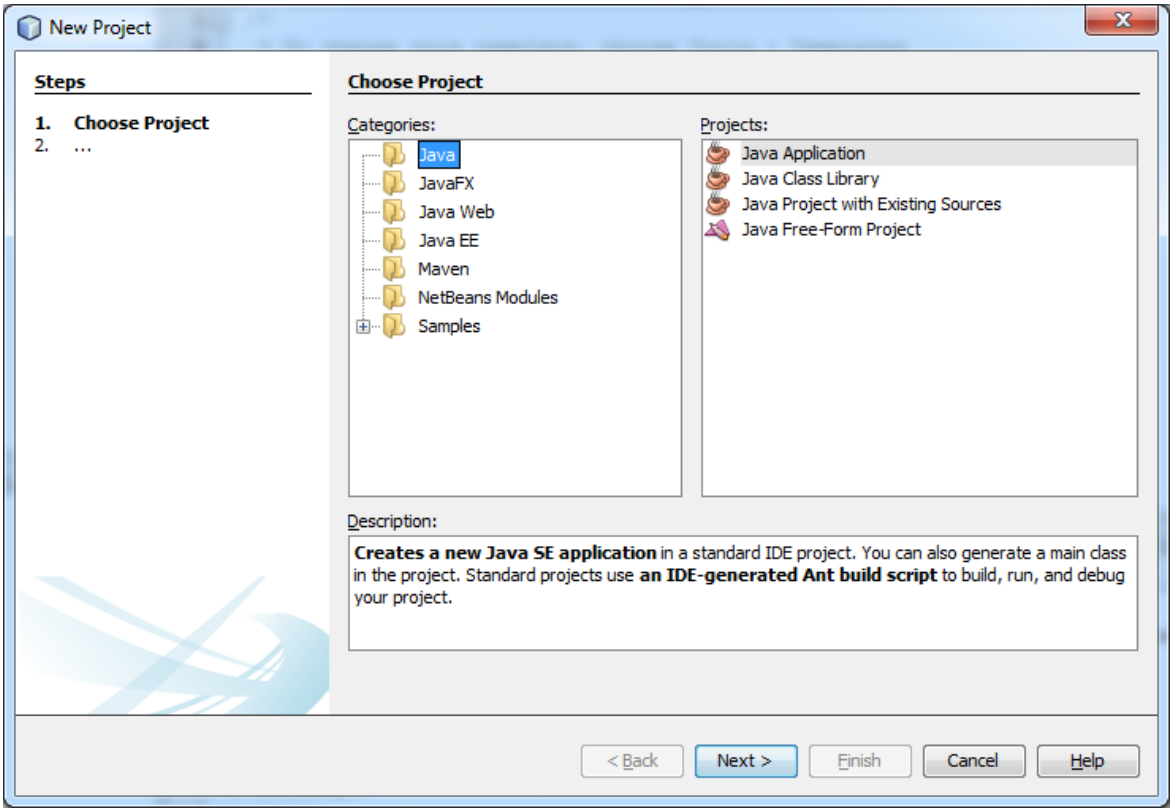
Output of Test Web service in web Browser



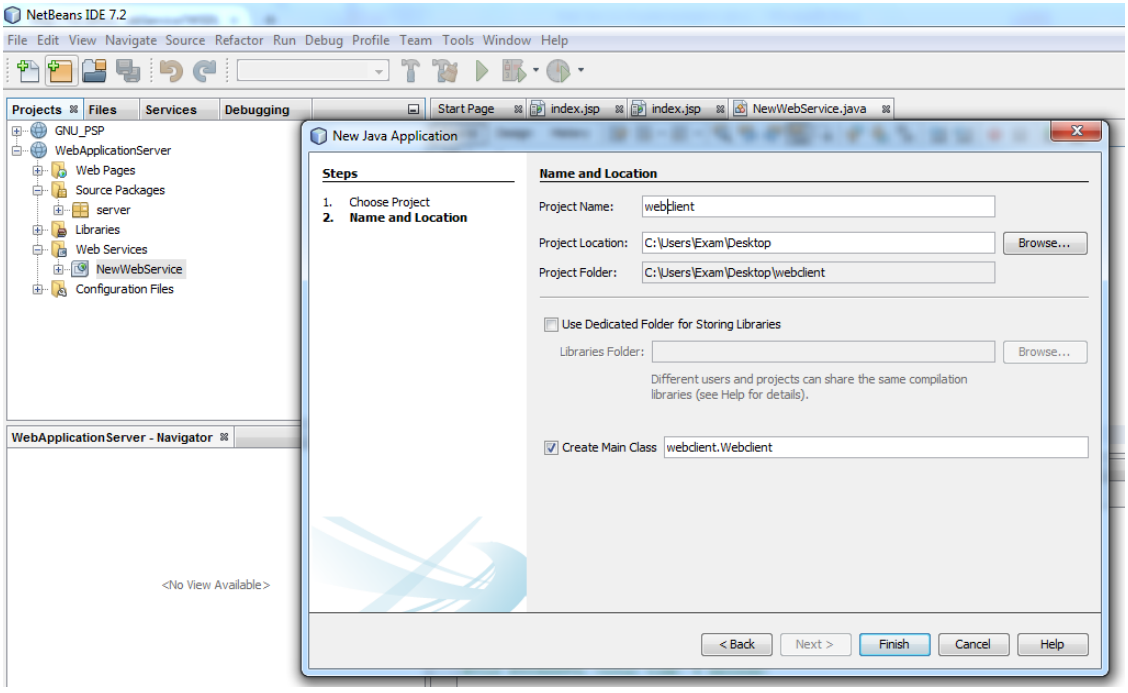
12) Click on WSDL File Link and copy newly open window URL



13) Create Simple Java Application from File > New > Java > java Application

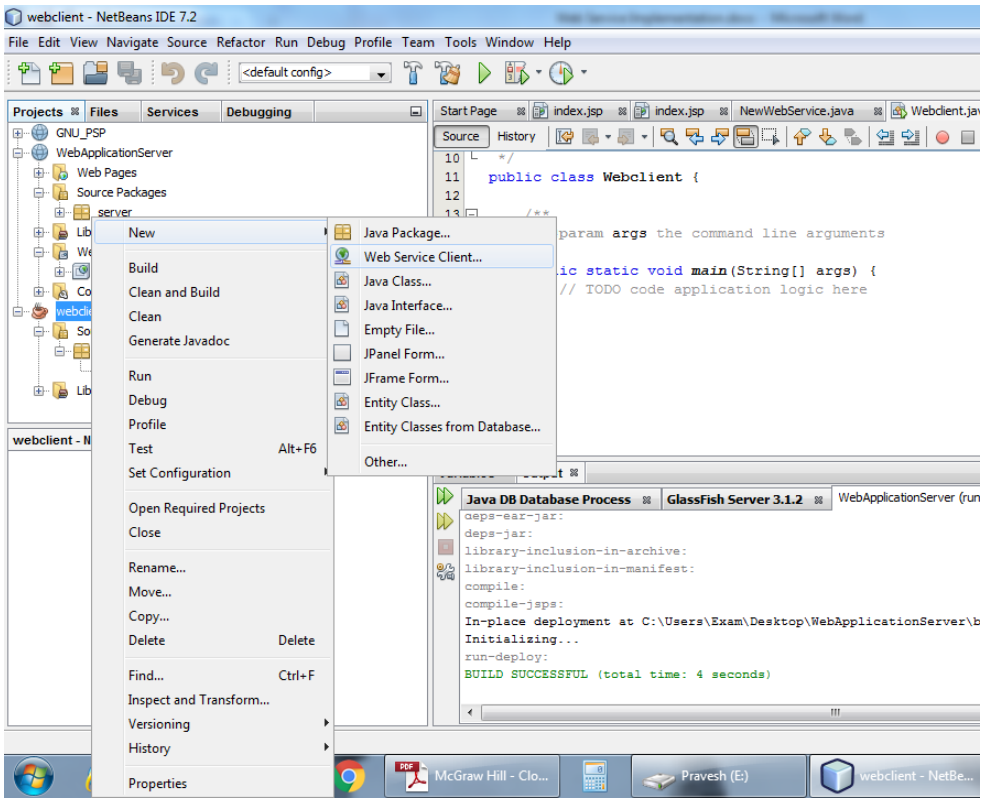


14) Specify Name and Finish

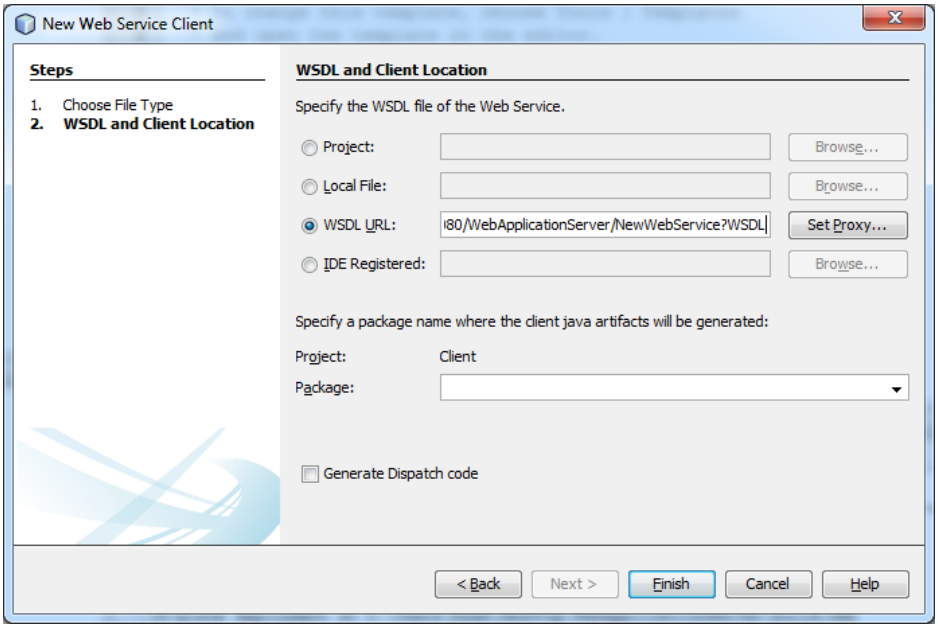


15) Add Web Service Client from

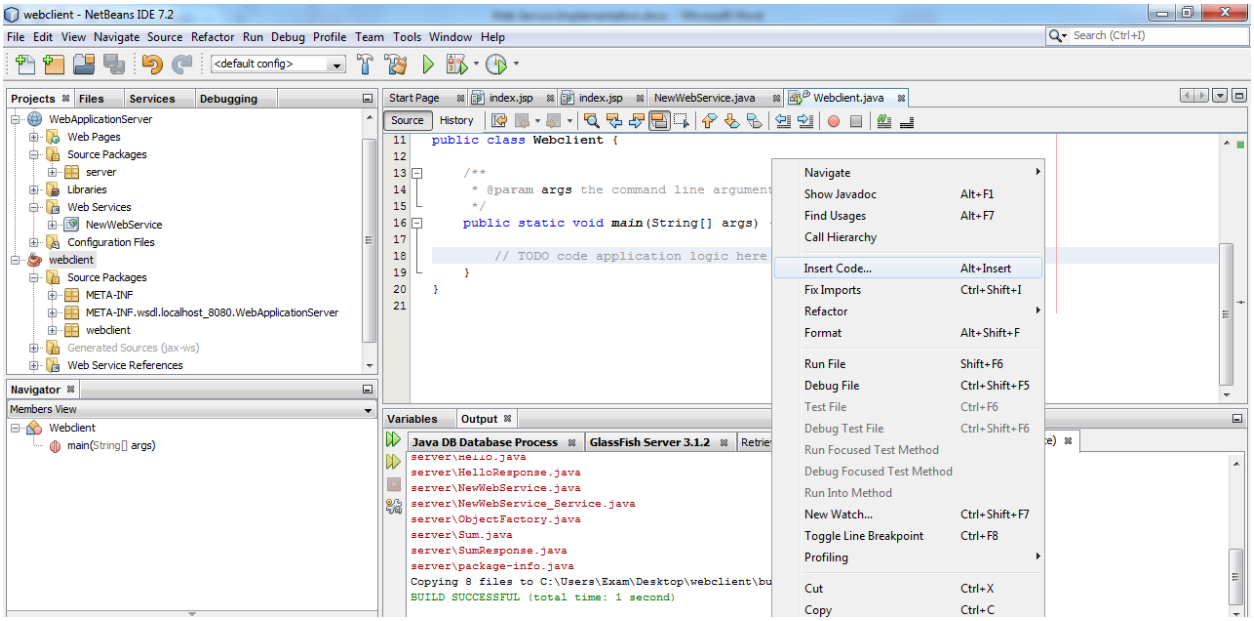
Client Project > Source Package > New > Web Service Client



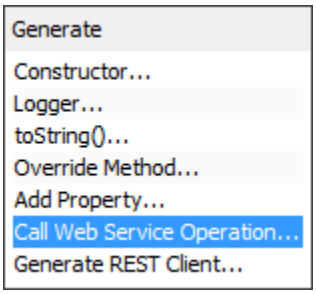
16) Add WSDL and click on Finish



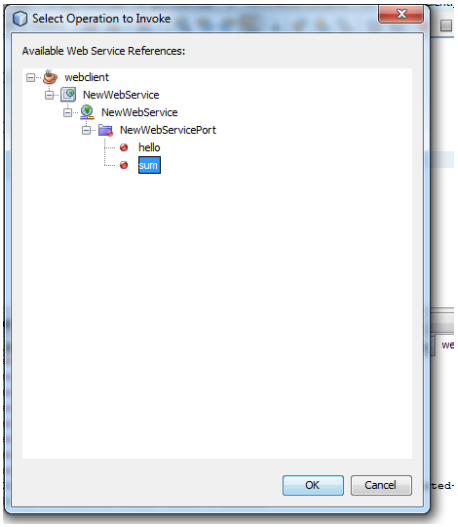
17) Open code of java file and Right click > Insert Code



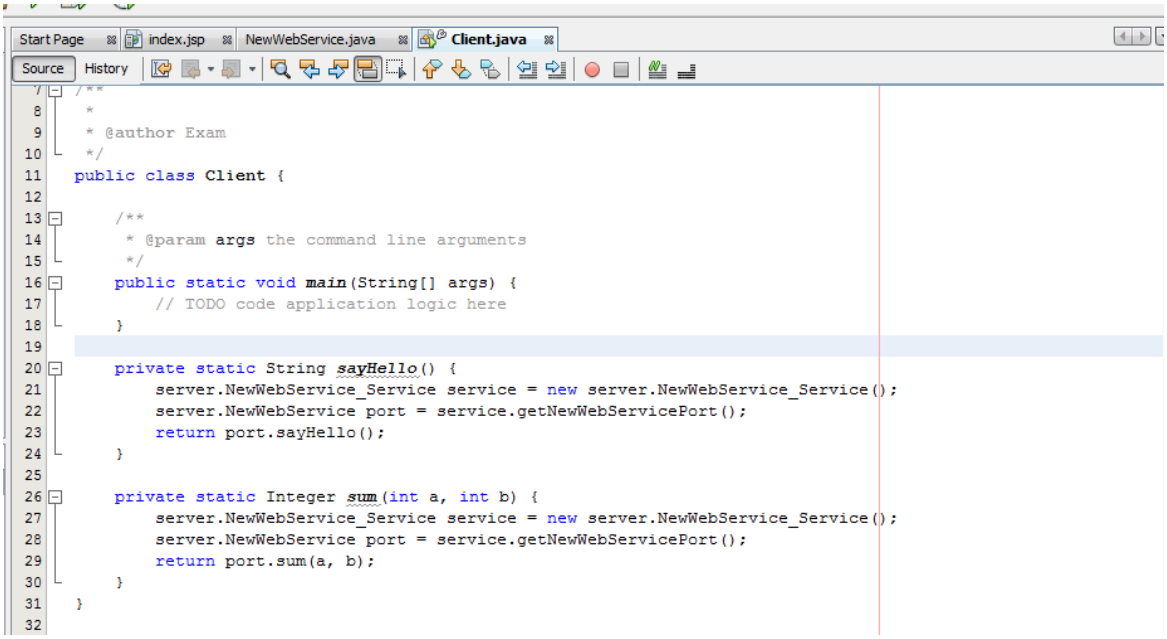
Then Select Call Web Service Operation



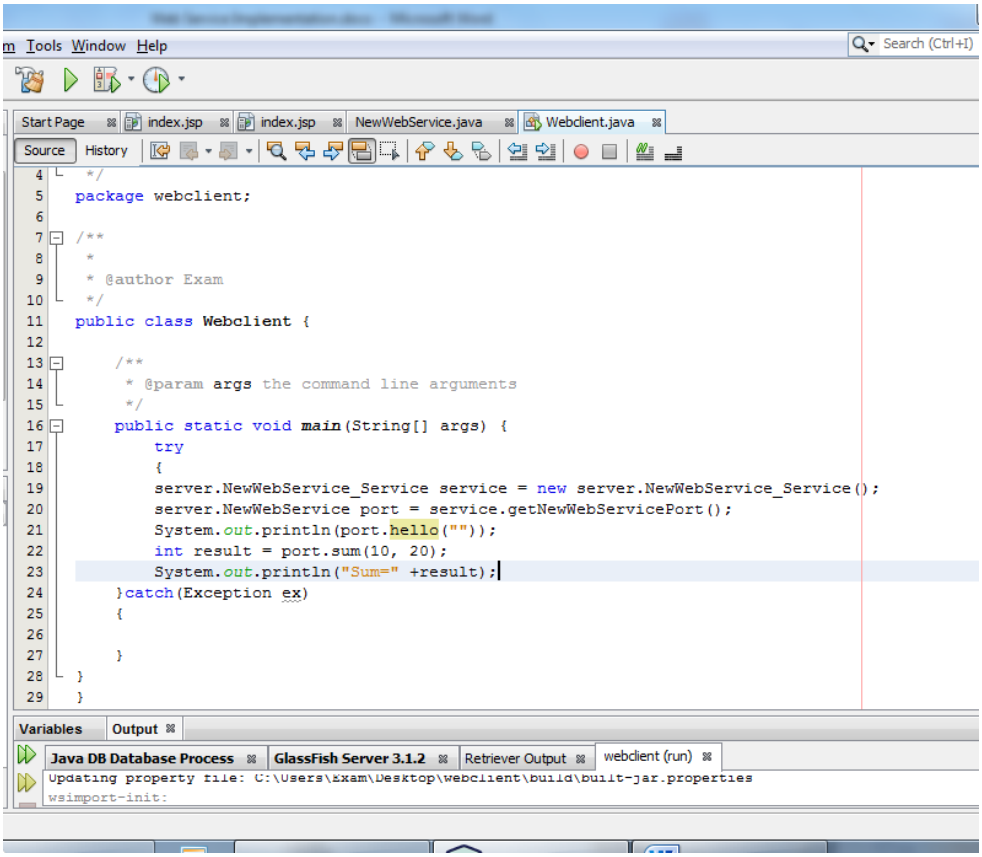
18) Select Operation from Web Service



19) You may Invoke multiple operation one by one



20) Modify code of Main Method in webClient.java



OR You Many modify in this way (optional)

```
History
     * @param args the command line arguments
     */
    public static void main(String[] args) {
        try{
            int a = 10;
            int b = 20;
            int result = sum(a,b);
            String s1 = sayHello();
            System.out.println("Sum="+result);
            System.out.println("String return by method:"+s1);
           } catch (Exception Ex){
               System.out.println(Ex);
           }

        // TODO code application logic here
    }

    private static String sayHello() {
        server.NewWebService_Service service = new server.NewWebService_Service();
        server.NewWebService port = service.getNewWebServicePort();
        return port.sayHello();
    }

    private static Integer sum(int a, int b) {
        server.NewWebService_Service service = new server.NewWebService_Service();
s   Output
```

21) Run Client Java File

```
file Team Tools Window Help                                   Search (Ctrl+I)
Start Page | index.jsp | index.jsp | NewWebService.java | Webclient.java
Source History
14          * @param args the command line arguments
15          */
16      public static void main(String[] args) {
17          try
18          {
19          server.NewWebService_Service service = new server.NewWebService_Service();
20          server.NewWebService port = service.getNewWebServicePort();
21          System.out.println(port.hello(""));
22          int result = port.sum(10, 20);
23          System.out.println("Sum=" +result);
24      }catch(Exception ex)
25      {
26
27      }
28  }
29  }
Variables  Output
Java DB Database Process | GlassFish Server 3.1.2 | Retriever Output | webclient (run)
Updating property file: C:\Users\Exam\Desktop\webclient\build\built-jar.properties
wsimport-init:
wsimport-client-NewWebService:
files are up to date
wsimport-client-generate:
Compiling 1 source file to C:\Users\Exam\Desktop\webclient\build\classes
compile:
run:
UVPCE
Sum=30
BUILD SUCCESSFUL (total time: 0 seconds)
```