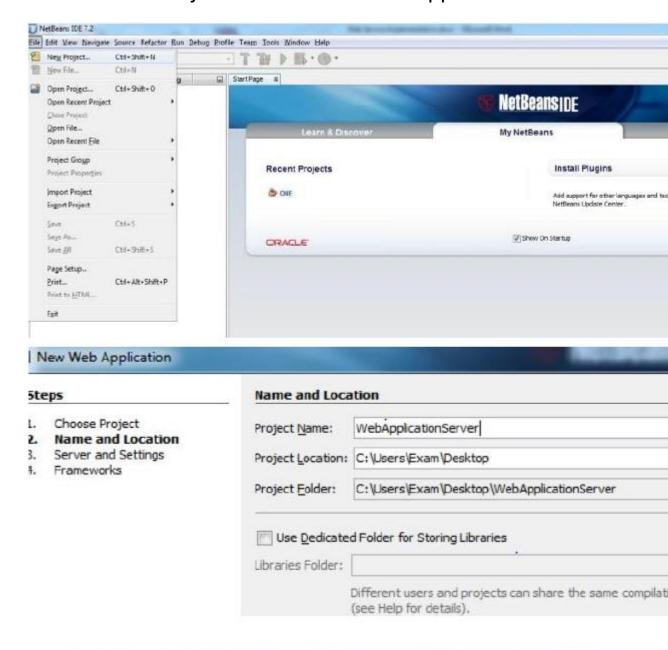
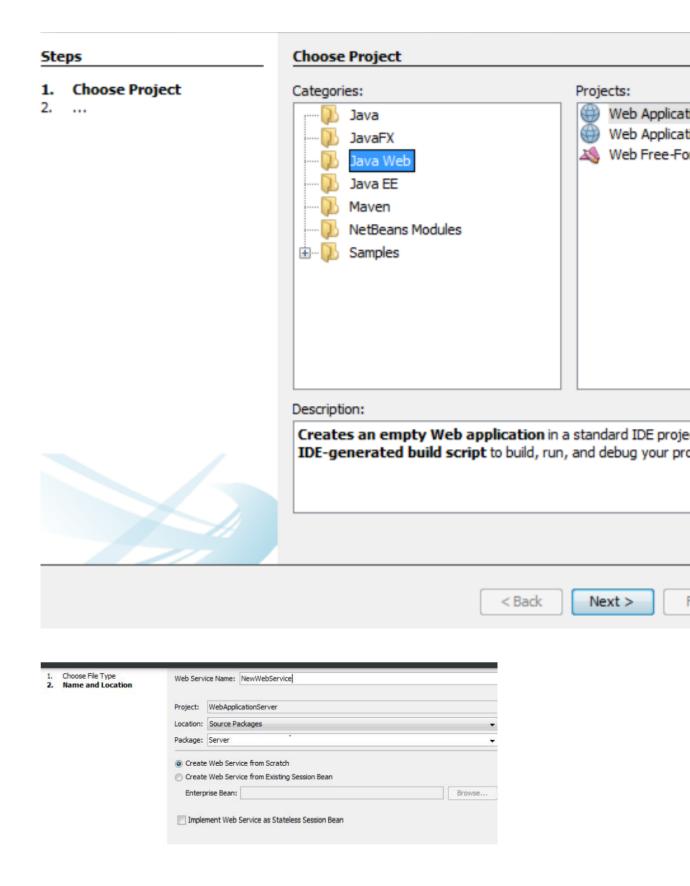
# Practical – 1

AIM: Implement Web Service using java

Create Web Application in NetBeans
 File > New Project > Java Web > Web Application

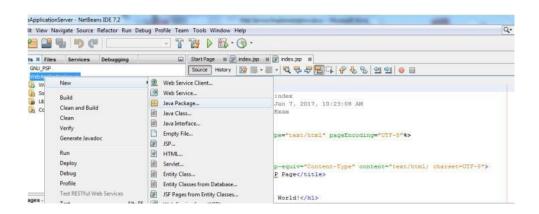


En.No:- 21012571033\_Vraj\_R\_Prajapati

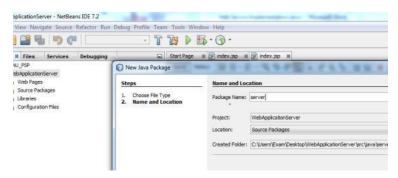


Click Next and Finish.

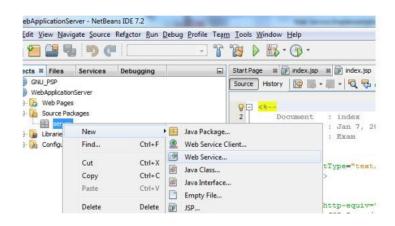
## 2) Create Java Packages from Web Application > Source Packages > New > Java Package



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

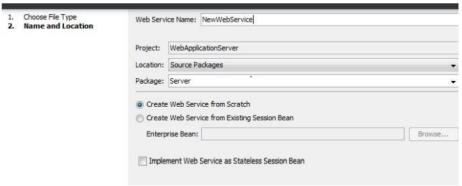


4) Right Click on Package and create web service New > Web Service



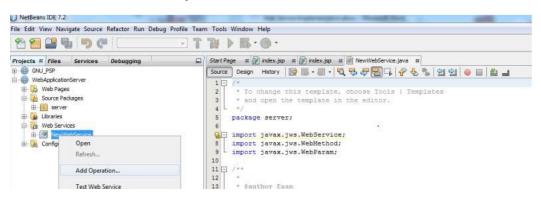
En.No:- 21012571033\_Vraj\_R\_Prajapati

5) Specify Name of Web service and select Java Package

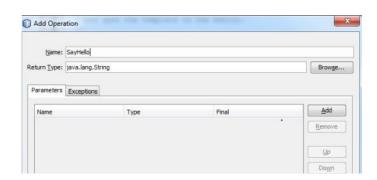


Web Services Folder is created

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

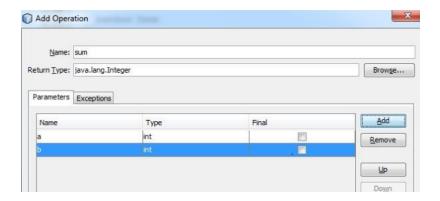


7) Add Operation
Specify Name of Operation and click on OK

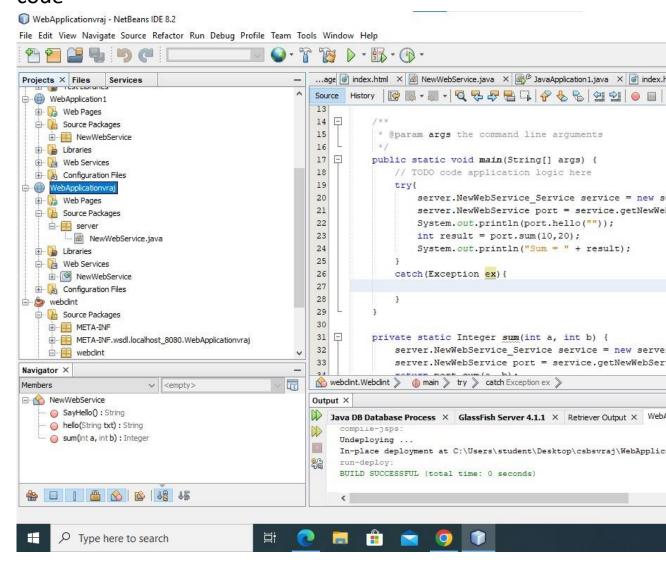


8) You May also add operation with parameters

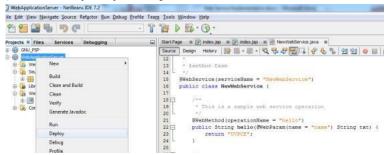
En.No:- 21012571033\_Vraj\_R\_Prajapati



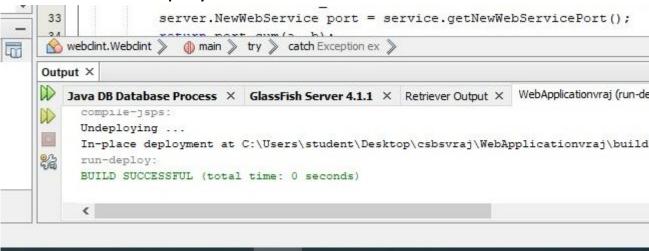
9) Modify Method according to requirement.. like I want to return string is UVPCE and perform sum operation then code



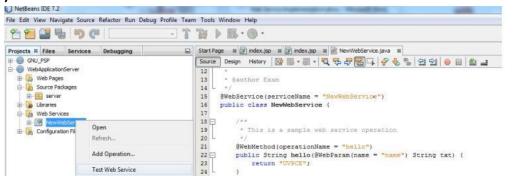
## 10) Deploy Project



### For Successful deployment



## 11) Test Web Service



Output of Test Web service in web Browser

## NewWebService Web Service Tester

This form will allow you to test your web service implementation (WSDL File)	
n, fill the method parameter(	s) input boxes and click on the button la
ng.Integer server.NewWebSe	ervice.sum(int,int)
, 20	
ng.Integer server.NewWebSe	ervice.divide(int,int)
, <mark>1</mark> 0	
ng.Integer server.NewWebSe	ervice.sub(int,int)
ng.String server.NewWebSer	rvice.hello(java.lang.String)
	ng.Integer server.NewWebSer ng.Integer server.NewWebSer 10 ng.Integer server.NewWebSer 10 ng.String server.NewWebSer ng.String server.NewWebSer

#### Method parameter(s)

Type	Value
int	20
int	10

#### Method returned

java.lang.Integer: "10"

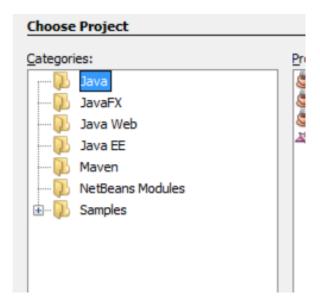
#### SOAP Request

#### SOAP Response

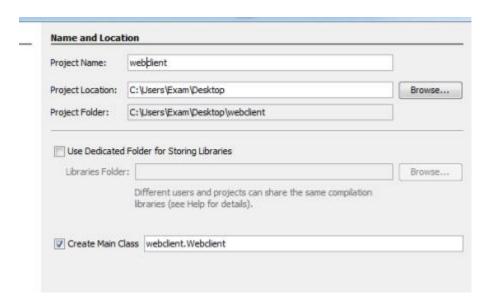
# 12) Click on WSDL File Link and copy newly open window URL

```
Generated by JAX-WS RI at http://jax-ws.dev.java.net. RI's version is Metro/2.2.0-1 (tags/2.2.0u1-7139;
- <definitions targetNamespace="http://server/" name="NewWebService">
    -<xsd:schema>
        <xsd:import namespace="http://server/" schemaLocation="http://localhost:8080/WebApplicationServer/NewWebService?</p>
     </xsd:schema>
   </types>
  -<message name="sum">
     <part name="parameters" element="tns:sum"/>
   </message>
  - <message name="sumResponse">
     <part name="parameters" element="tns:sumResponse"/>
  -<message name="hello">
     <part name="parameters" element="tns:hello"/>
  - <message name="helloResponse">
     <part name="parameters" element="tns:helloResponse"/>
  - <portType name="NewWebService">
    - <operation name="sum">
        <input wsam:Action="http://server/NewWebService/sumRequest" message="tns:sum"/>
        <output wsam:Action="http://server/NewWebService/sumResponse" message="tns:sumResponse"/>
     </operation>
    - <operation name="hello">
        <input wsam:Action="http://server/NewWebService/helloRequest" message="tns:hello"/>
```

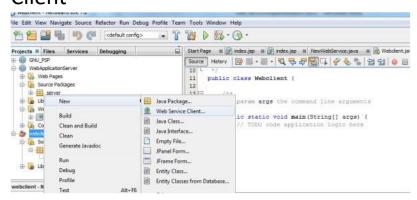
# 13) Create Simple Java Application from File > New > Java > java Application



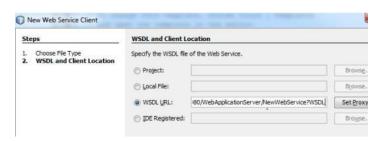
### 14) Specify Name and Finish



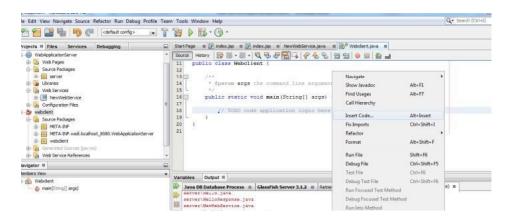
15) Add Web Service Client from Client Project > Source Package > New > Web Service Client



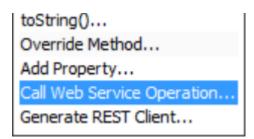
16) Add WSDL and click on Finish



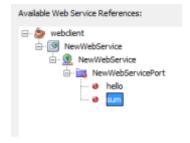
17) Open code of java file and Right click > Insert Code



## Then Select Call Web Service Operation

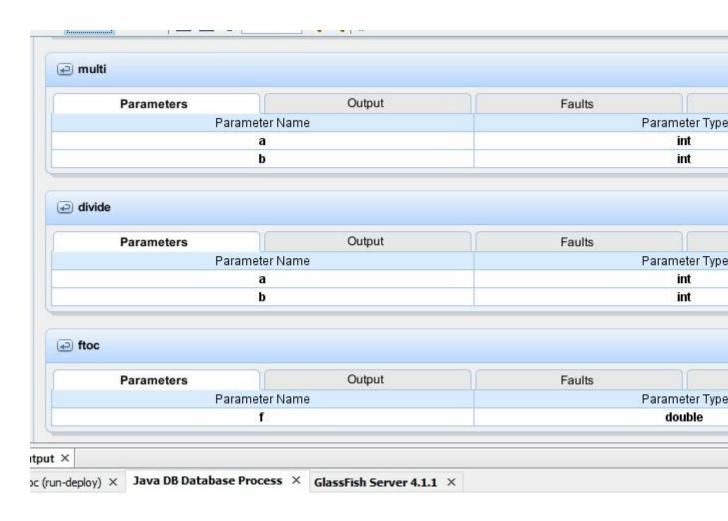


## 18) Select Operation from Web Service



```
8
  - /**
9
0
      * @author student
      */
2
     public class Webclient {
3
  =
5
          * @param args the command line arguments
6
          */
7
  口
         public static void main(String[] args) {
8
        // TODO code application logic here
0
1
  旦
        private static Integer sum(int a, int b) {
2
             server.NewWebService Service service = new server.NewWebService Service();
3
             server.NewWebService port = service.getNewWebServicePort();
4
             return port.sum(a, b);
5
webdient.Webdient
tput X
 Java DB Database Process X GlassFish Server 4.1.1 X Retriever Output X webclient (run) X
   Compiling 17 source files to C:\Users\student\Desktop\csbsvraj\webclient\build\classes
   Copying 1 file to C:\Users\student\Desktop\csbsvraj\webclient\build\classes
```

Copied 2 empty directories to 1 empty directory under C:\Users\student\Desktop\csbsvraj\webclien



```
)
            //TODO write your implementation code here:
            return a-b;
2
        }
3
 122
5
        * Web service operation
5
        */
7
        @WebMethod(operationName = "multi")
 public Integer multi(@WebParam(name = "a") int a, @WebParam(name = "b") int b)
           //TODO write your implementation code here:
)
           return a*b;
L
       }
2
3
 1
        * Web service operation
5
        */
5
        @WebMethod(operationName = "divide")
 public Integer divide (@WebParam (name = "a") int a, @WebParam (name = "b") int b)
3
            //TODO write your implementation code here:
9
            return a/b;
)
🔰 server.NewWebService 》 👸 ftoc 》 x 》
tput X
c (run-deploy) × Java DB Database Process × GlassFish Server 4.1.1 ×
Thu Jul 20 12:22:12 IST 2023 : Security manager installed using the Basic server security policy.
Thu Jul 20 12:22:12 IST 2023 : Apache Derby Network Server - 10.10.2.0 - (1582446) started and ready
```