

## 1] CalculatorWS.java

```
package org.me.calculator;

import javax.jws.WebService;
import javax.jws.WebMethod;
import javax.jws.WebParam;
import javax.ejb.Stateless;

@WebService(serviceName = "CalculatorWS")
@Stateless()

public class CalculatorWS {

    /**
     * This is a sample web service operation
     */

    /**
     * Web service operation
     */
    @WebMethod(operationName = "add")
    public int add(@WebParam(name = "i") int i, @WebParam(name = "j") int j) {
        //TODO write your implementation code here:
        int k = i + j;
        return k;
    }
}
```

## 2] CalculatorWS\_Client\_Application.java:

```
package calculatorws_client_application;

public class CalculatorWS_Client_Application {

    /**
     * @param args the command line arguments
     */
}
```

```

*/

public static void main(String[] args) {

// TODO code application logic here

try{

int i=10;

int j=20;

int result= add(i,j);

System.out.println("Result= "+result);

}catch(Exception e){

System.out.println("Exception : "+e);

}

}

private static int add(int i, int j) {

org.me.calculator.CalculatorWS_Service service = new

org.me.calculator.CalculatorWS_Service();

org.me.calculator.CalculatorWS port = service.getCalculatorWSPort();

return port.add(i, j);

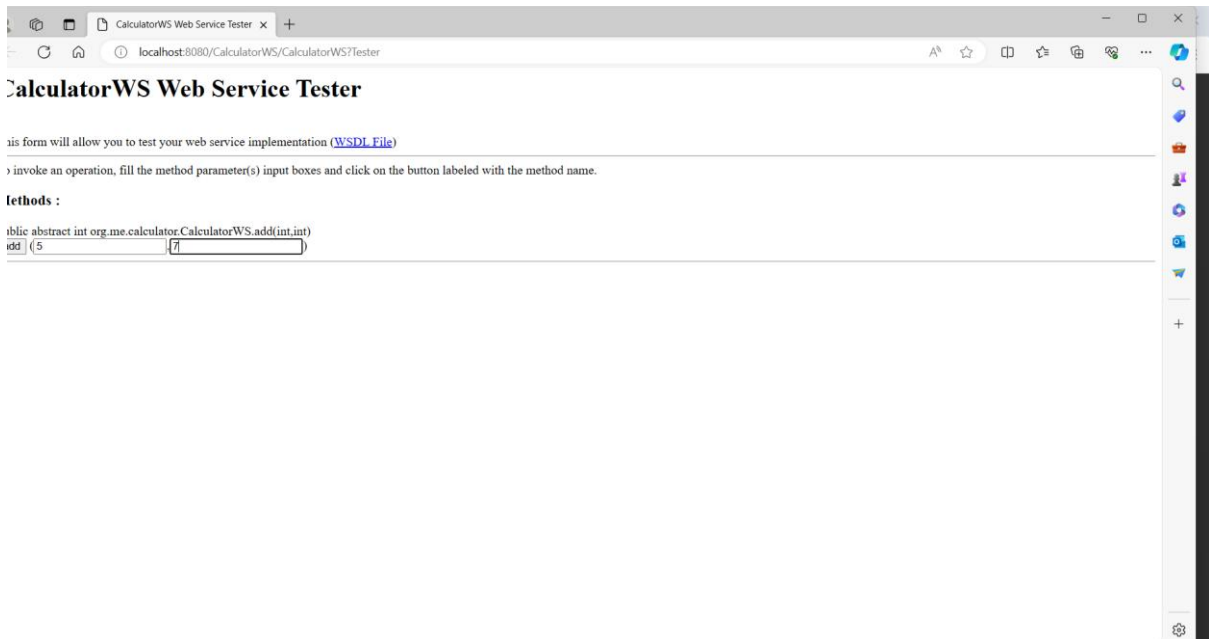
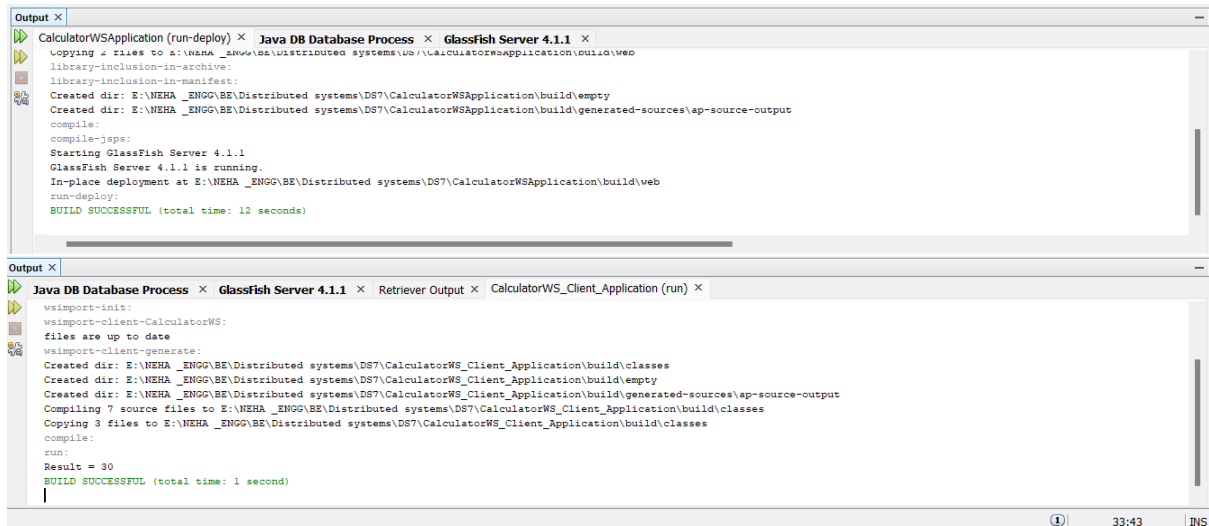
}

}

```

## OUTPUT:





Method invocation trace

localhost:8080/CalculatorWS/CalculatorWS?Tester

### dd Method invocation

Method parameter(s)

Type	Value
int	5
int	7

Method returned

t: "12"

SOAP Request

```
<?xml version="1.0" encoding="UTF-8"?><S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/" xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/">
  <SOAP-ENV:Header/>
  <S:Body>
    <ns2:add xmlns:ns2="http://calculator.me.org/">
      <i>5</i>
      <j>7</j>
    </ns2:add>
  </S:Body>
</S:Envelope>
```

SOAP Response

```
<?xml version="1.0" encoding="UTF-8"?><S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/" xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/">
  <SOAP-ENV:Header/>
  <S:Body>
    <ns2:addResponse xmlns:ns2="http://calculator.me.org/">
      <return>12</return>
    </ns2:addResponse>
  </S:Body>
```