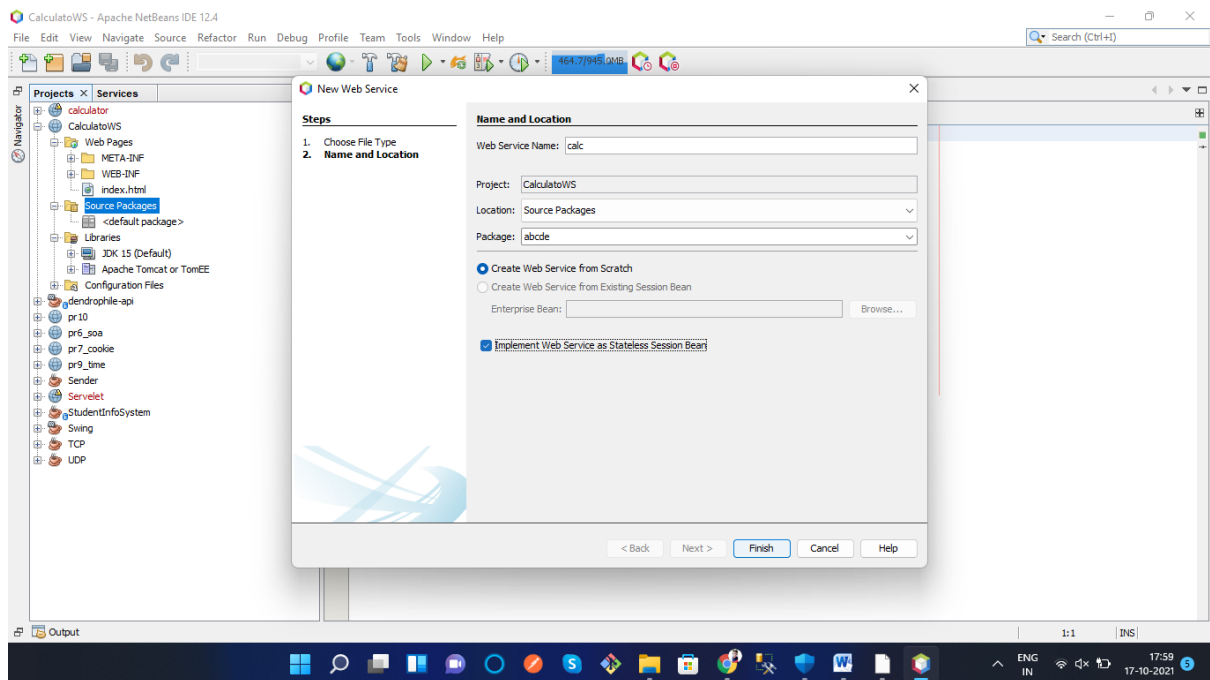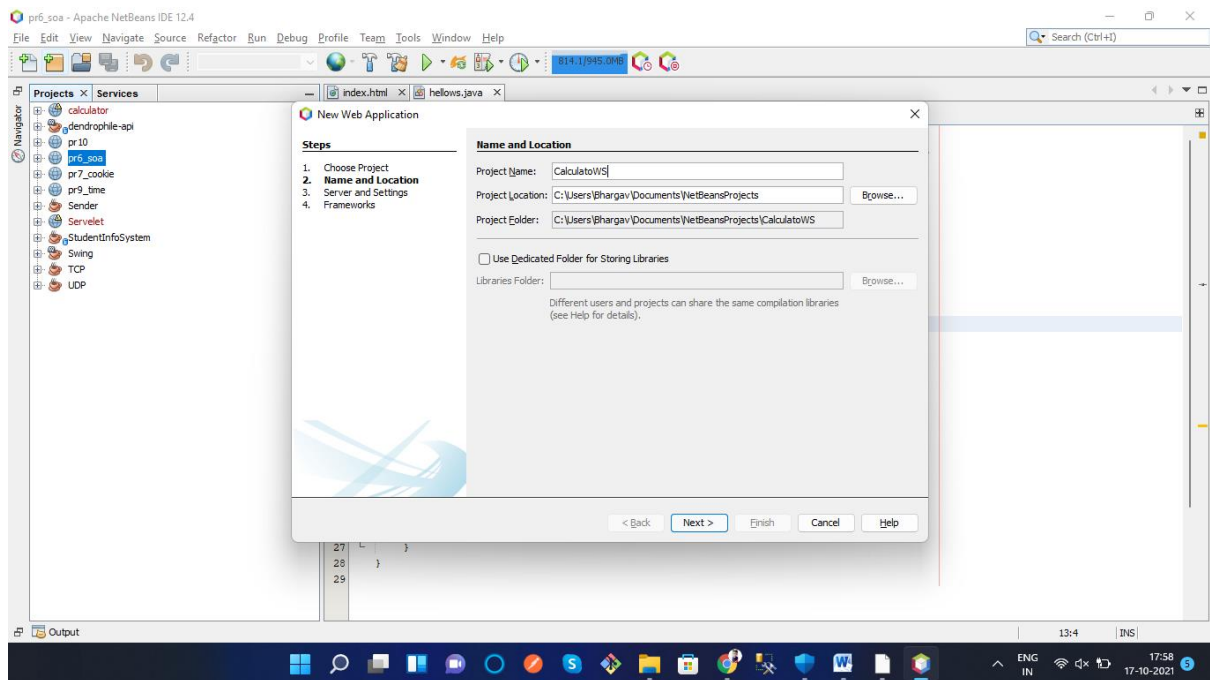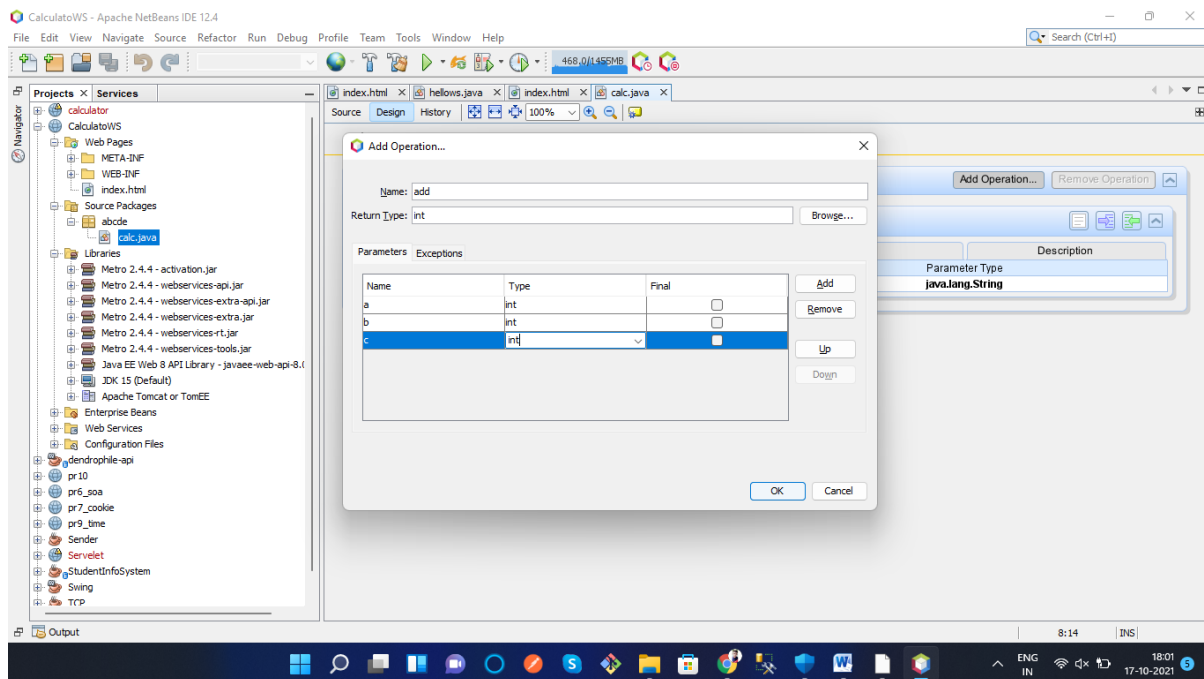# 19BEIT30007 Valani Bhargav Chandrakant Bhai 5th IT

Practical -7

Aim : Create Calculator web service using netbeans.

```
package abcde;
import javax.jws.WebService;
import javax.jws.WebMethod;
import javax.jws.WebParam;
import javax.ejb.Stateless;
@WebService(serviceName = "calc")
@Stateless()
public class CalculatorWS {
@WebMethod(operationName = "Add")
public int Add(@WebParam(name = "a") int a, @WebParam(name =
"b") int b, @WebParam(name = "c") int c) {
int d = a+b+c;
return d;
}
}
@WebMethod(operationName = "Sub")
```
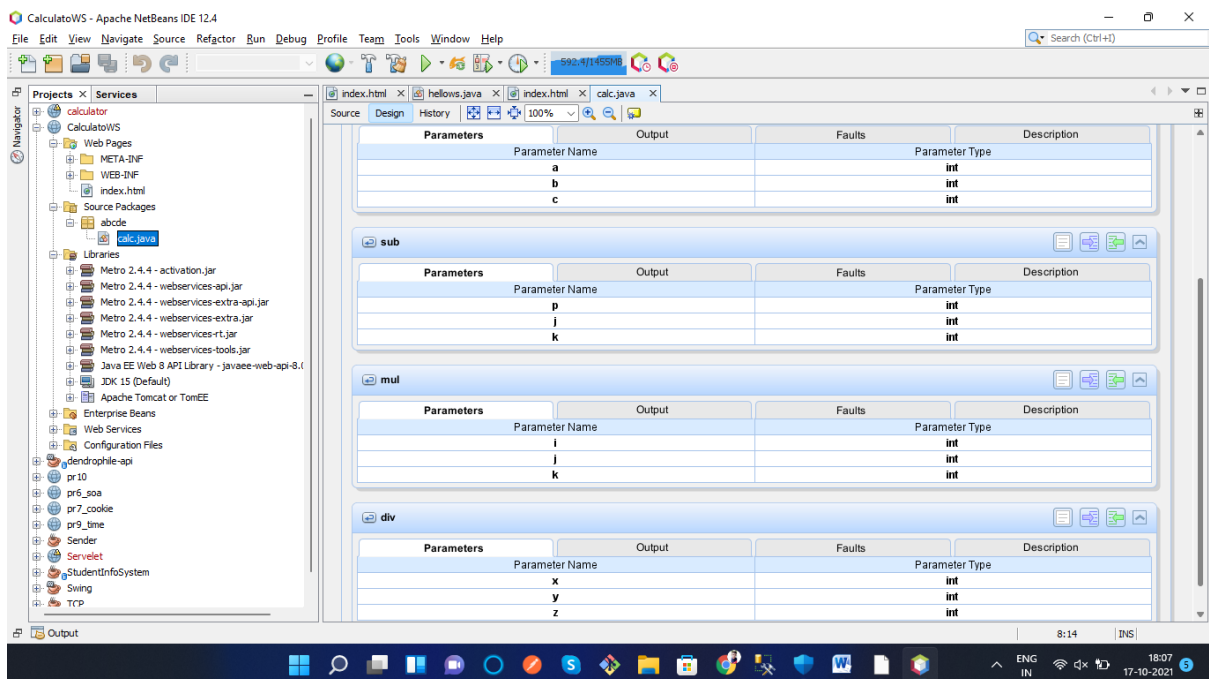
```java
public int Sub(@WebParam(name = "p") int p, @WebParam(name = "q") int q) {
int r = p-q;
return r;
}
@WebMethod(operationName = "Mul")
public int Mul(@WebParam(name = "i") int i, @WebParam(name = "j") int j) {
int k = i*j;
return k;
}
@WebMethod(operationName = "Div")
public int Div(@WebParam(name = "x") int x, @WebParam(name = "y") int y) {
int z = x/y;
return z;
}
}
```


Add

add Method invocation

Method parameter(s)

Type	Value
int	2
int	5
int	3

Method returned

int : "10"

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/en
    <SOAP-ENV:Header/>
    <S:Body>
        <ns2:Add xmlns:ns2="http://test/">
            <a>2</a>
```

Sub

sub Method invocation

Method parameter(s)

Type	Value
int	5
int	5

Method returned

int : "0"

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/en
    <SOAP-ENV:Header/>
    <S:Body>
        <ns2:Sub xmlns:ns2="http://test/">
            <p>5</p>
            <q>5</q>
        </ns2:Sub>
    </S:Body>
</S:Envelope>
```

MUL

Method parameter(s)

Type	Value
int	3
int	2

Method returned

int : "6"

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/en
    <SOAP-ENV:Header/>
    <S:Body>
        <ns2:Mul xmlns:ns2="http://test/">
            <i>3</i>
            <j>2</j>
        </ns2:Mul>
    </S:Body>
</S:Envelope>
```

Div

div Method invocation

Method parameter(s)

Type	Value
int	3
int	3

Method returned

int : **1**

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/en
    <SOAP-ENV:Header/>
    <S:Body>
        <ns2:Div xmlns:ns2="http://test/">
            <x>3</x>
            <y>3</y>
```