

Assignment No.7

Problem Statement:

Create a simple web service and write any distributed application to consume the web service.

Code:

```
/*
 * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to
change this license
 * Click nbfs://nbhost/SystemFileSystem/Templates/WebServices/WebService.java to edit
this template
 */
package addition;

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

/**
 *
 * @author student
 */
@WebService(serviceName = "Addition")
public class Addition {

    /**
     * Web service operation
     */
    @WebMethod(operationName = "addition")
    public Integer addition(@WebParam(name = "a") int a, @WebParam(name = "b") int b)
{
    //TODO write your implementation code here:
    return a+b;
}

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

}
```

OUTPUT:

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Method invocation trace +

localhost:8080/WebApplication1/Addition?Tester

Update

addition Method invocation

Method parameter(s)

Type	Value
int	3
int	4

Method returned

java.lang.Integer : "7"

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:addition xmlns:ns2="http://addition/">
      <a>3</a>
      <b>4</b>
    </ns2:addition>
  </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/>
```