

## ASSIGNMENT-7

### Code:

#### SimpleInterest.java

```
/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
package com.myservice;

import javax.ws.WebService;
import javax.ws.WebMethod;
import javax.ws.WebParam;

/**
 *
 * @author Admin
 */
@WebService(serviceName = "SimpleInterest")
public class SimpleInterest {

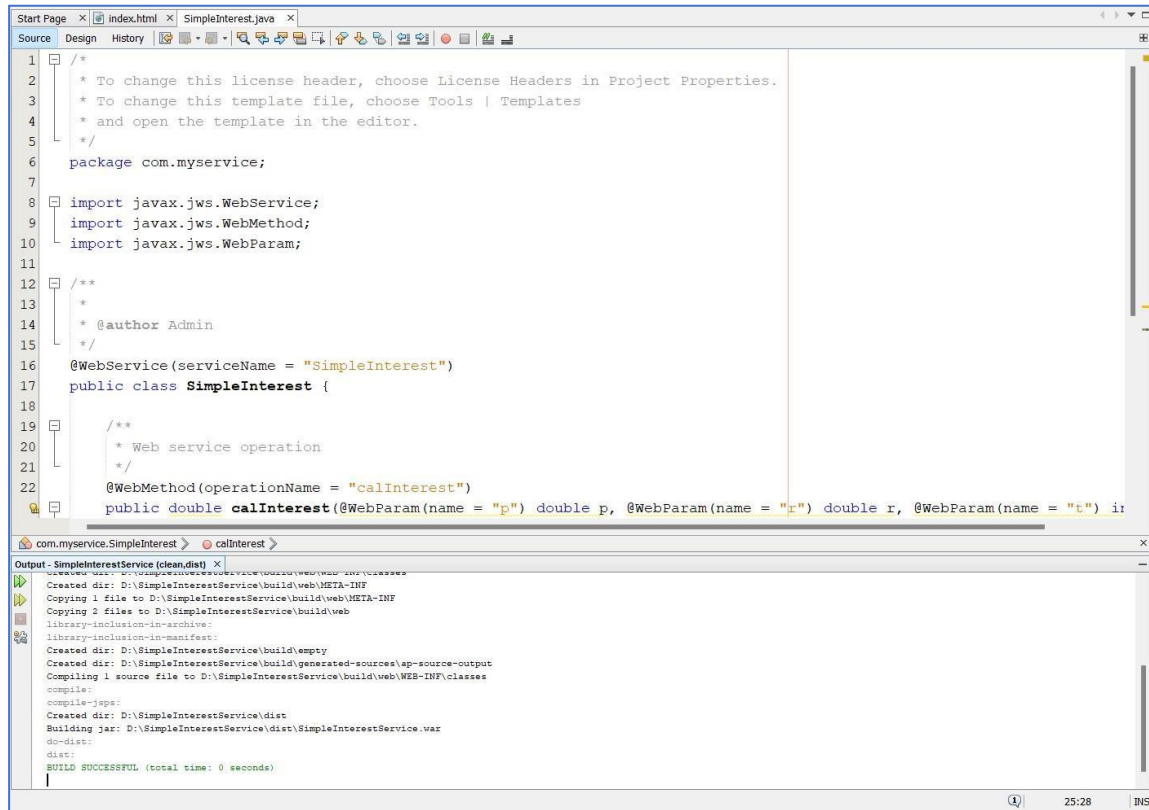
    /**
     * Web service operation
     */
    @WebMethod(operationName = "calInterest")
    public double calInterest(@WebParam(name = "p") double p, @WebParam(name = "r")
double r, @WebParam(name = "t") int t) { //TODO write your implementation code
here:
        return (p*r*t)/100;
    }

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

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Class: BE-10  
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## Screenshots:



The screenshot displays an IDE window with two panes. The top pane shows the source code of a Java web service class named `SimpleInterest`. The code includes package declarations, imports for `javax.xml.ws` annotations, and a `@WebService` annotation with `serviceName = "SimpleInterest"`. Inside the `SimpleInterest` class, there is a `@WebMethod` annotated method `calInterest` that takes three parameters: `p` (principal), `r` (rate), and `t` (time), all of type `double`. The bottom pane shows the build output for the project `com.myservice.SimpleInterest`. The output log indicates a successful build, showing steps such as creating directories, copying files, and compiling the source code.

```
1  /*
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3   * To change this template file, choose Tools | Templates
4   * and open the template in the editor.
5   */
6   package com.myservice;
7
8   import javax.xml.ws.WebService;
9   import javax.xml.ws.WebMethod;
10  import javax.xml.ws.WebParam;
11
12  /**
13   *
14   * @author Admin
15   */
16  @WebService(serviceName = "SimpleInterest")
17  public class SimpleInterest {
18
19      /**
20       * Web service operation
21       */
22      @WebMethod(operationName = "calInterest")
23      public double calInterest(@WebParam(name = "p") double p, @WebParam(name = "r") double r, @WebParam(name = "t") int t) {
24
25      }
26  }
```

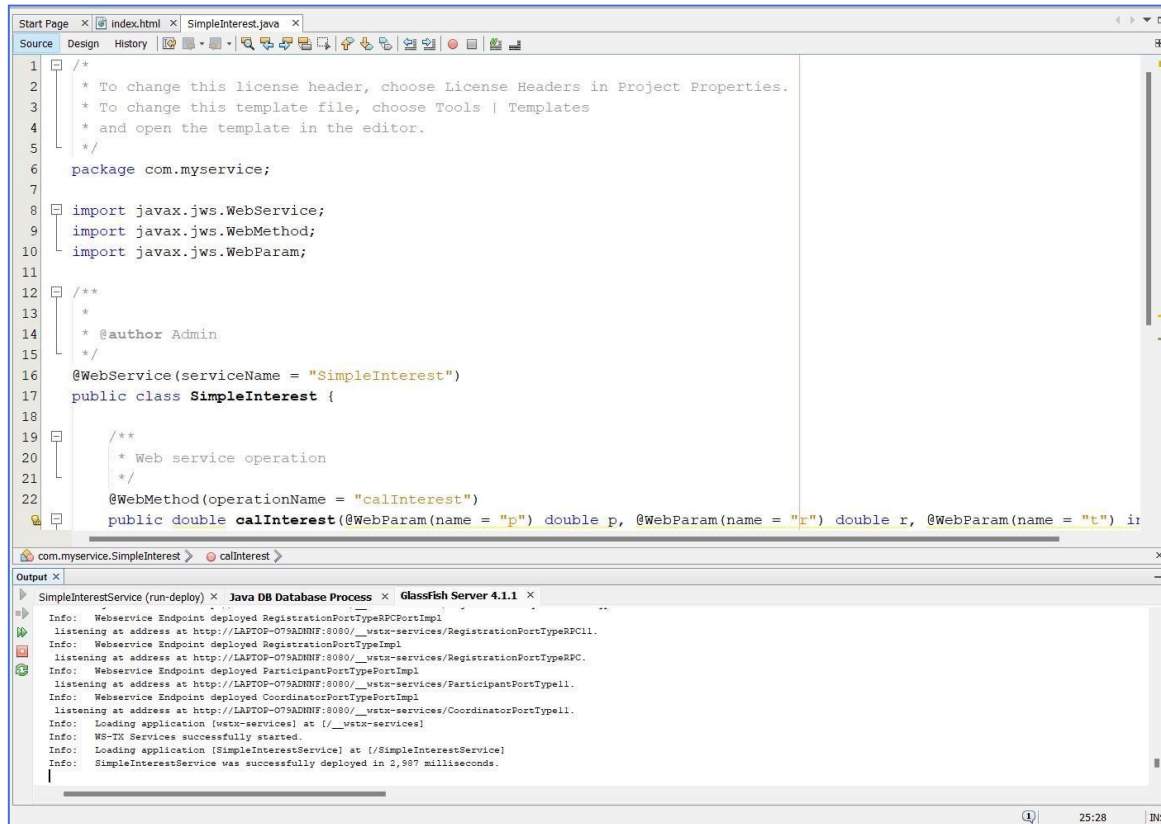
com.myservice.SimpleInterest > calInterest >

Output - SimpleInterestService (clean, dist) x

```
Created dir: D:\SimpleInterestService\build\classes
Created dir: D:\SimpleInterestService\build\classes
Copying 1 file to D:\SimpleInterestService\build\classes
Copying 2 files to D:\SimpleInterestService\build\classes
Library-inclusion-in-archive:
Library-inclusion-in-manifest:
Created dir: D:\SimpleInterestService\build\empty
Created dir: D:\SimpleInterestService\build\generated-sources\ap-source-output
Compiling 1 source file to D:\SimpleInterestService\build\classes
compile:
compile-jsp:
Created dir: D:\SimpleInterestService\dist
Building jar: D:\SimpleInterestService\dist\SimpleInterestService.war
do-dist:
dist:
BUILD SUCCESSFUL (total time: 0 seconds)
```

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```
1  /*
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3  * To change this template file, choose Tools | Templates
4  * and open the template in the editor.
5  */
6  package com.myservice;
7
8  import javax.jws.WebService;
9  import javax.jws.WebMethod;
10 import javax.jws.WebParam;
11
12 /**
13  *
14  * @author Admin
15  */
16 @WebService(serviceName = "SimpleInterest")
17 public class SimpleInterest {
18
19     /**
20      * Web service operation
21      */
22     @WebMethod(operationName = "calInterest")
23     public double calInterest(@WebParam(name = "p") double p, @WebParam(name = "r") double r, @WebParam(name = "t") int t) {
24
25     }
26 }
```

Output

```
SimpleInterestService (run-deploy) x Java DB Database Process x Glassfish Server 4.1.1 x
Info: Webservice Endpoint deployed RegistrationPortTypeRPCPortImpl
Info: Listening at address at http://LAPTOP-079ADNMF:8080/_wstx-services/RegistrationPortTypeRPCImpl
Info: Webservice Endpoint deployed RegistrationPortTypeImpl
Info: Listening at address at http://LAPTOP-079ADNMF:8080/_wstx-services/RegistrationPortTypeRPC
Info: Webservice Endpoint deployed ParticipantPortTypePortImpl
Info: Listening at address at http://LAPTOP-079ADNMF:8080/_wstx-services/ParticipantPortTypeImpl
Info: Webservice Endpoint deployed CoordinatorPortTypePortImpl
Info: Listening at address at http://LAPTOP-079ADNMF:8080/_wstx-services/CoordinatorPortTypeImpl
Info: Loading application [wstx-services] at [/__wstx-services]
Info: WS-TX Services successfully started.
Info: Loading application [SimpleInterestService] at [/SimpleInterestService]
Info: SimpleInterestService was successfully deployed in 2,907 milliseconds.
```



localhost:8080/SimpleInterestService/SimpleInterest?Tester

Import favorites | Amazon.co.uk - Onl... | Express VPN | McAfee Security | LastPass password... | Gmail | YouTube

## SimpleInterest Web Service Tester

This form will allow you to test your web service implementation ([WSDL File](#))

To invoke an operation, fill the method parameter(s) input boxes and click on the button labeled with the method name.

**Methods :**

public abstract double com.myservice.SimpleInterest.calInterest(double,double,int)

calInterest (  ,  ,  )

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**Method parameter(s)**

Type	Value
double	1000
double	2
int	1

**Method returned**

double : "20.0"

**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/envelope/">
  <SOAP-ENV:Header/>
  <S:Body>
    <ns2:calInterest xmlns:ns2="http://myservice.com/">
      <p>1000.0</p>
      <r>2.0</r>
      <t>1</t>
    </ns2:calInterest>
  </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:calInterestResponse xmlns:ns2="http://myservice.com/">
      <return>20.0</return>
    </ns2:calInterestResponse>
  </S:Body>
</S:Envelope>
```