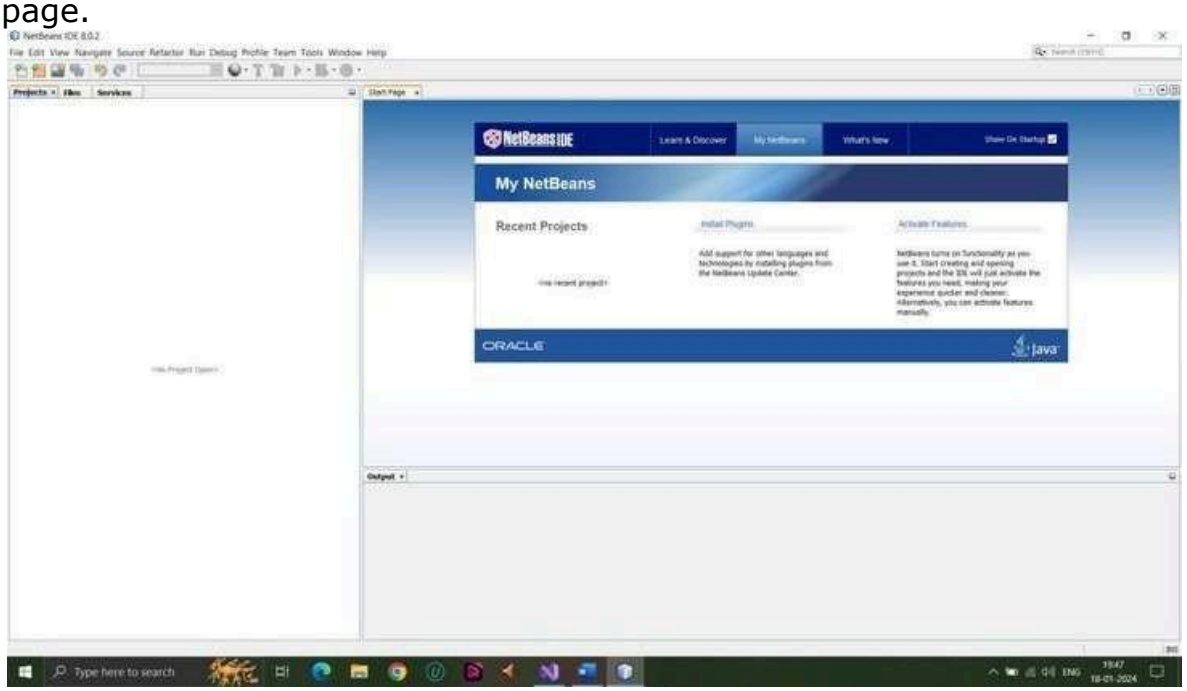
Practical 3

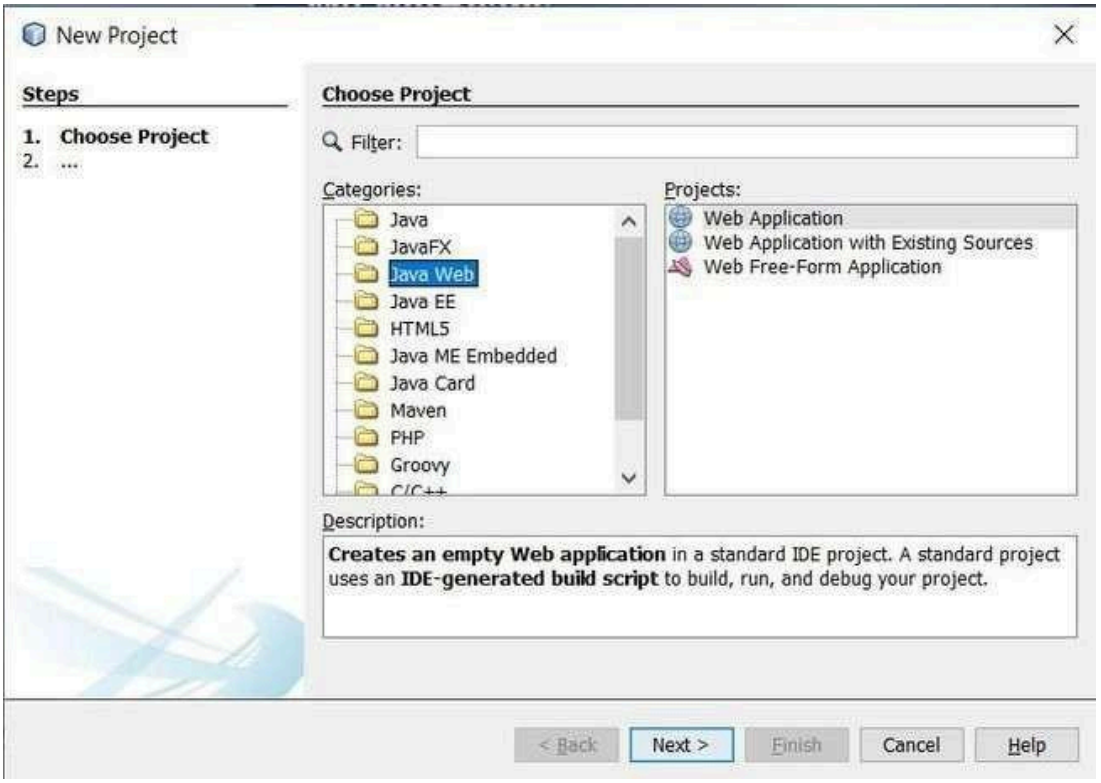
Aim: Create a Simple SOAP service for consuming java web services in Python.

Steps:

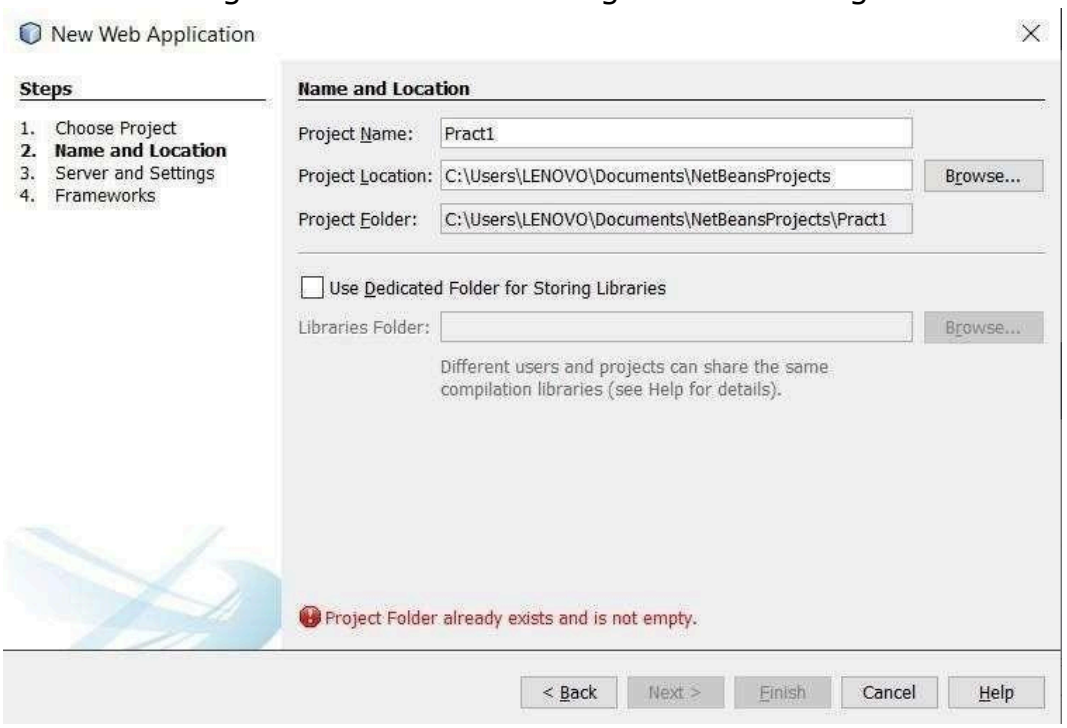
1. Open the NetBeans , and you will get the following screen. Close the start page.



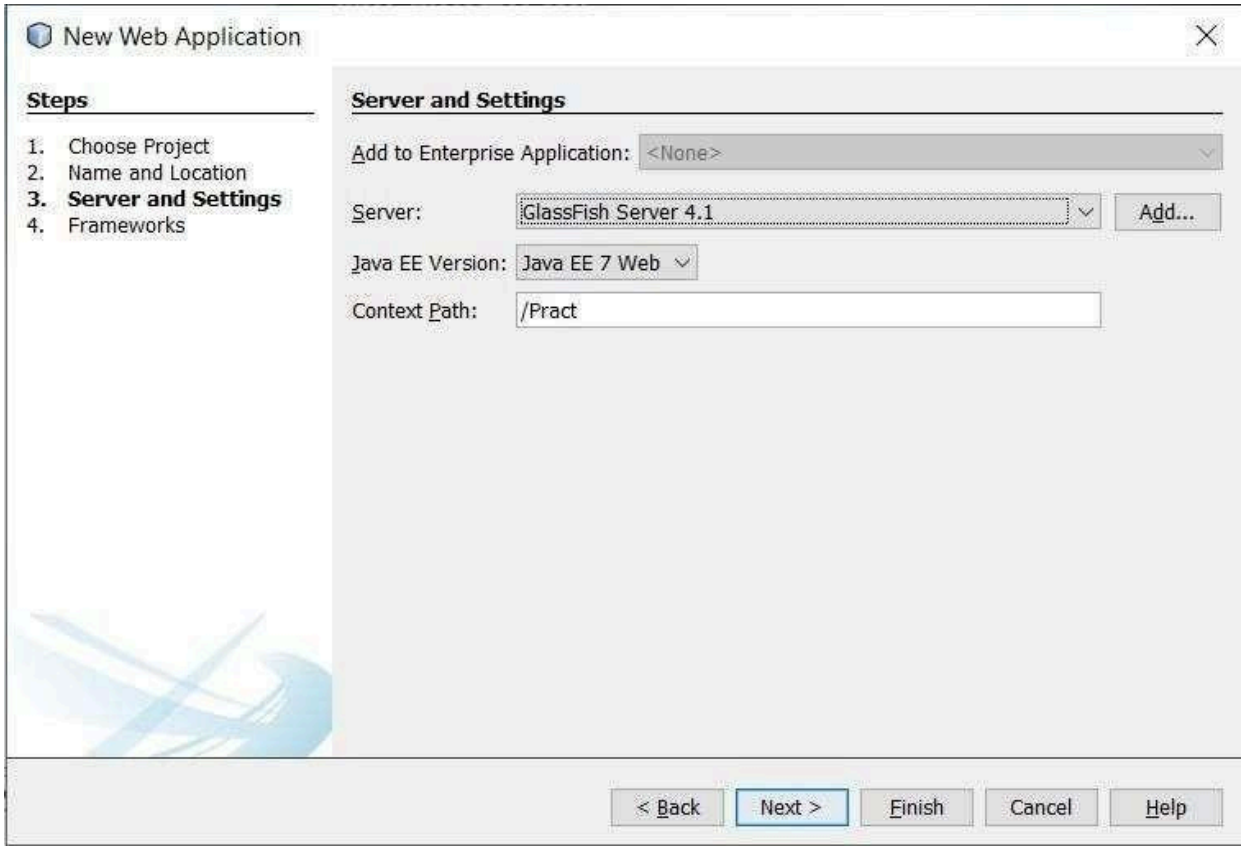
2. Now click on the file tab and click on new project you will get the following screen :



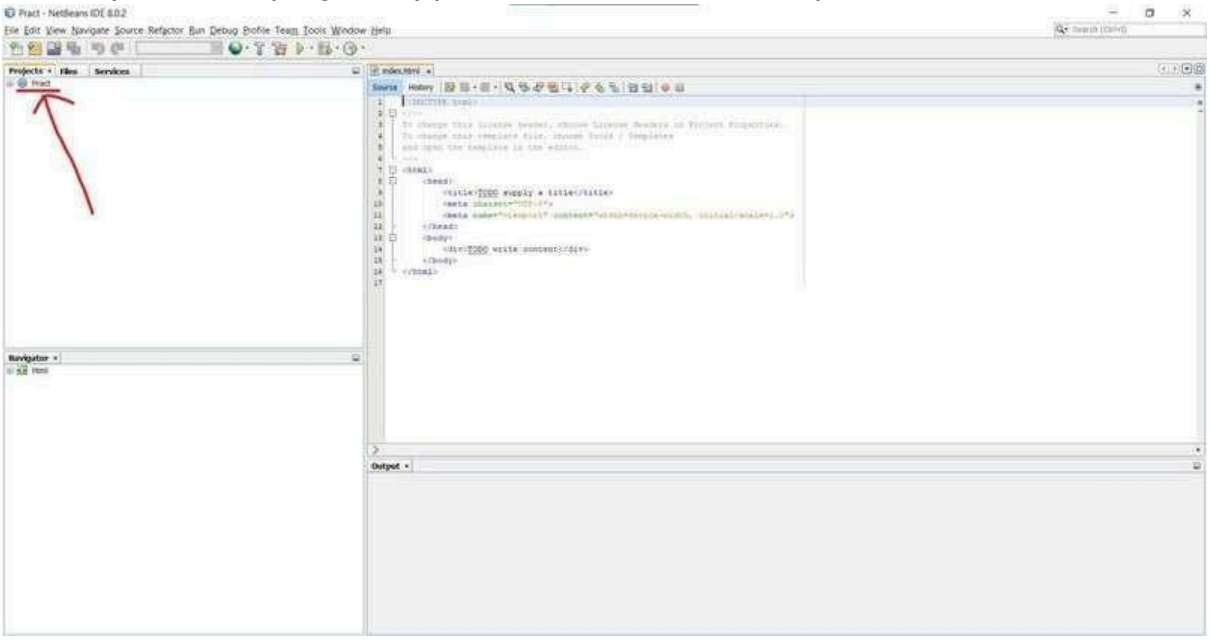
3. In Categories select Java Web and in Projects , Select Web Application .After selecting click on next You will get the following window:



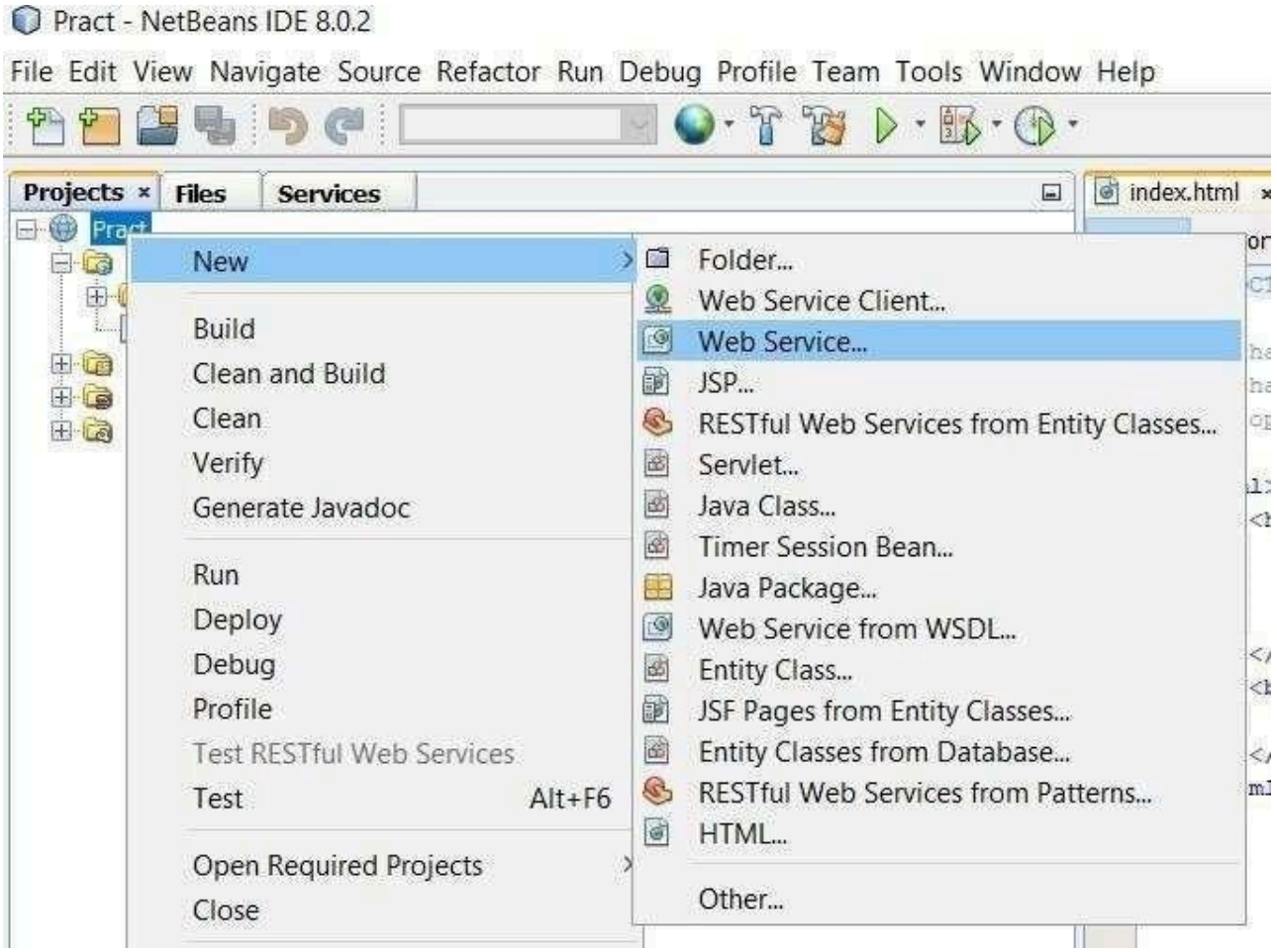
4. Now Give name to the Project Name: , and click on next. You will get the following window then again click on finish



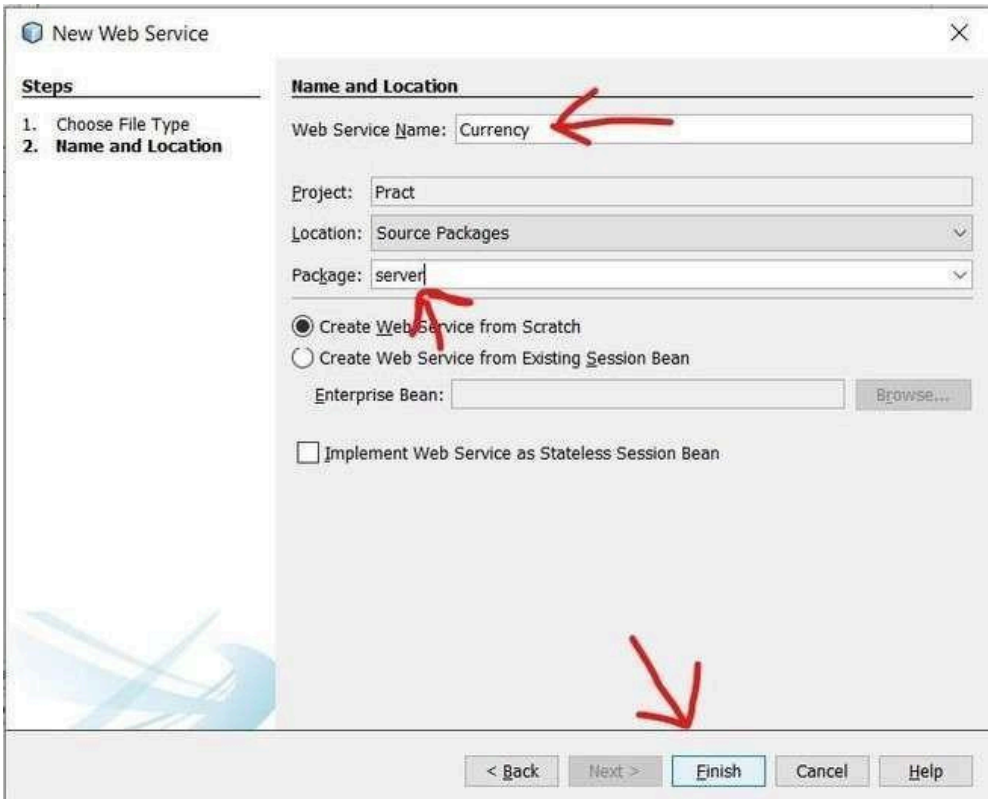
5. You will get the following screen now carefully see in projects section your recently created project appears double click to expand it:



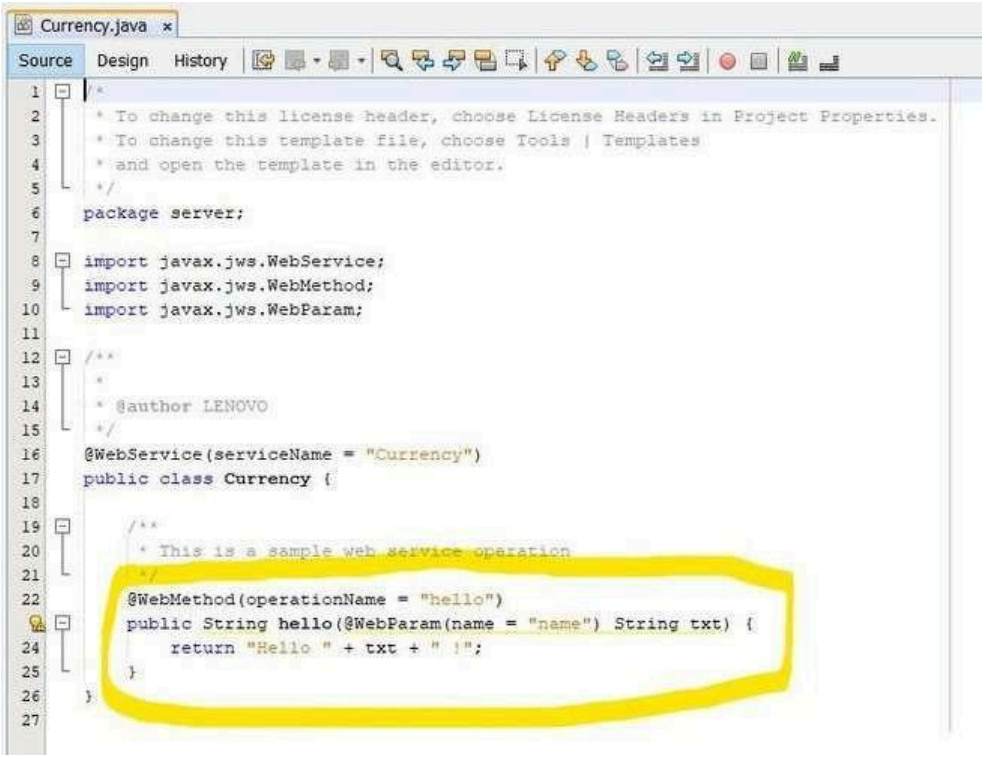
6. Now Right click on the project and select new and then select Web Service ,As shown Below



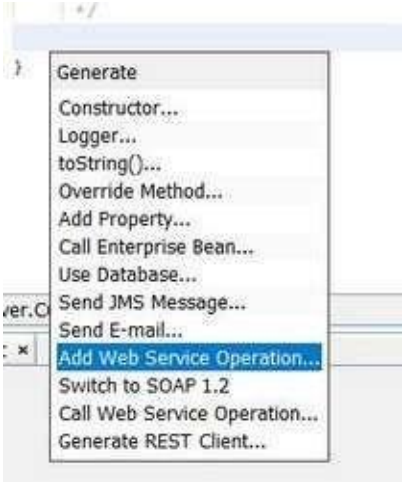
7. After clicking Web Service the following window should appear , now give name to web service and give package as “server”. As shown in the image



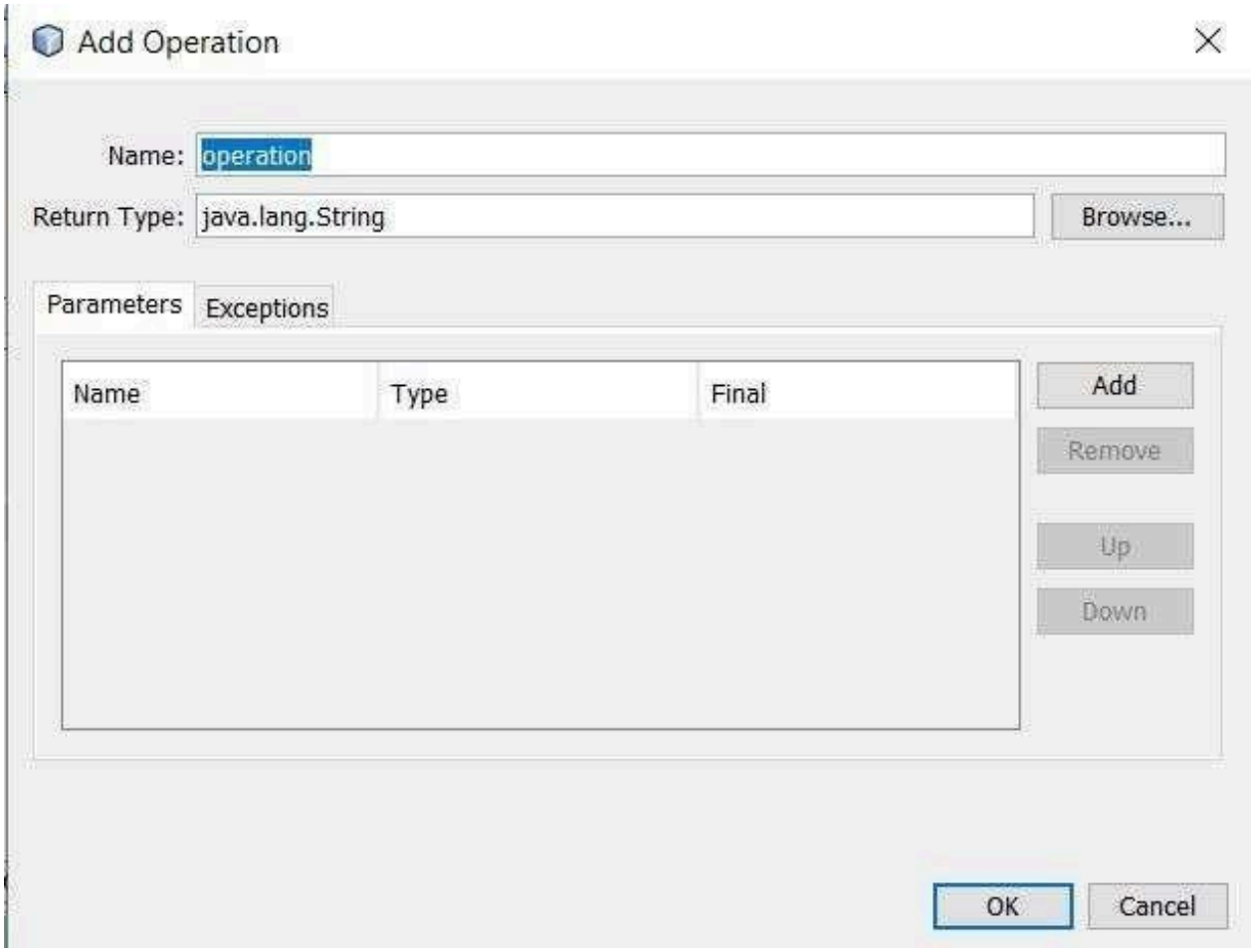
After clicking finish you should get the following window erase the mentioned code



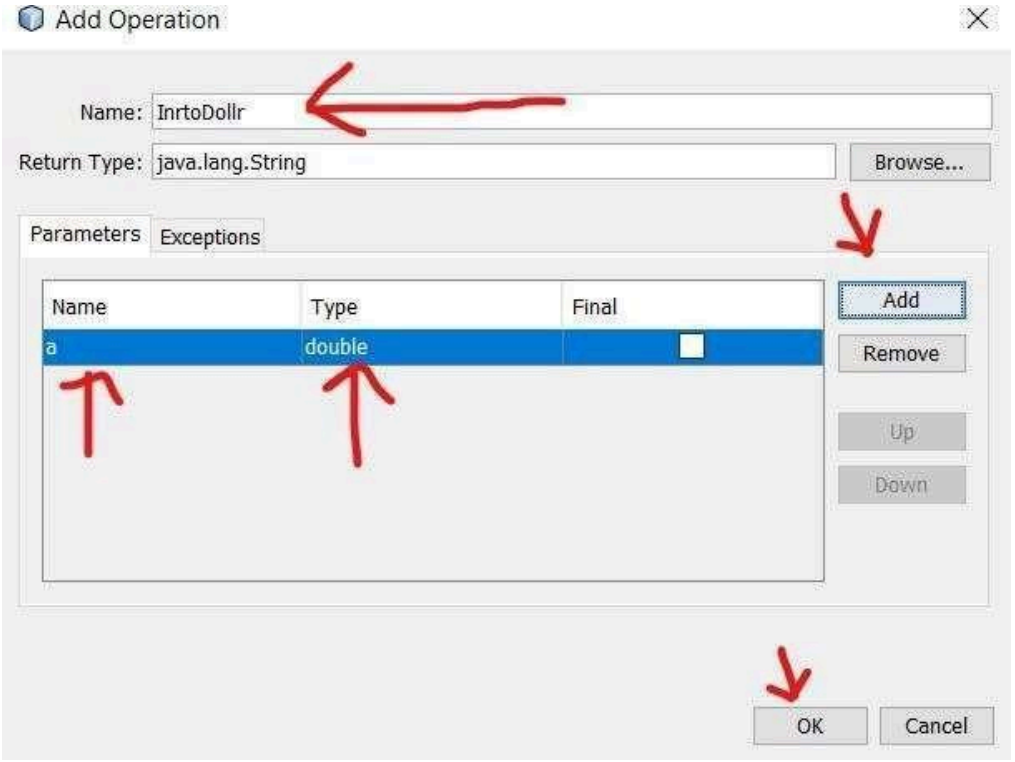
8. Now right click anywhere and click on insert code and select Add Web Service Operation



9. The following window would appear :
   Just give name to the method or operation and click on add button to add parameters to the method as here we are converting dollar to rupees we should need only one parameter .



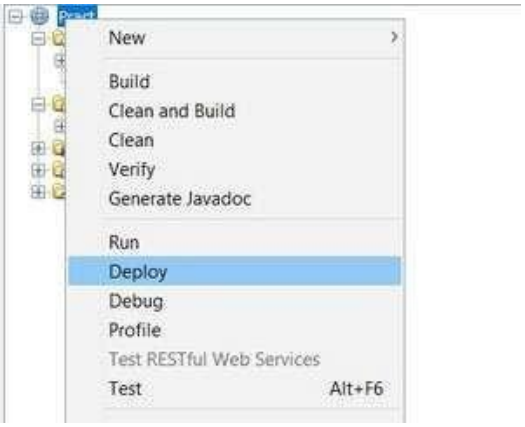
10. Give the name to the variable select data type as double and click on ok as shown below:



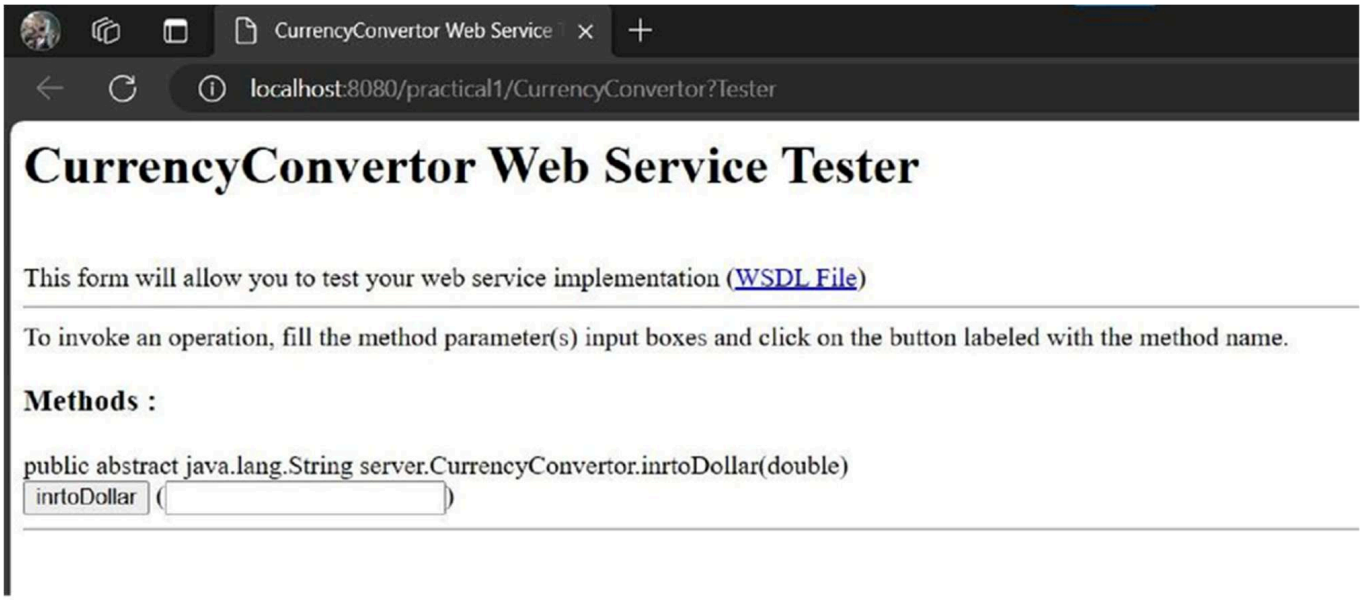
11. After clicking ok code will auto generated , make changes In that code as mentioned below:

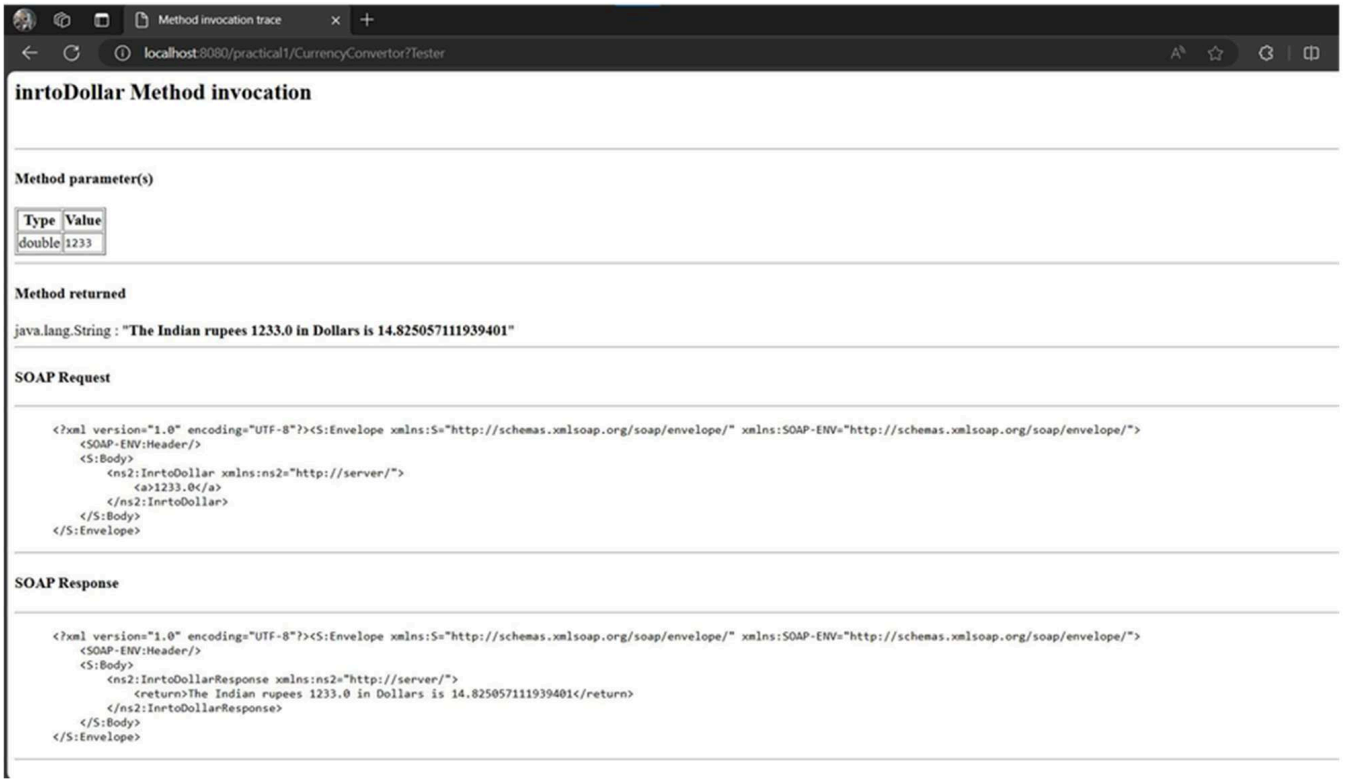
```
@WebMethod(operationName = "InrtoDollar")
public String InrtoDollar(@WebParam(name = "a") double a) {
    //TODO write your implementation code here:
    return "The Indian rupees "+a+" in Dollars is "+(a/83.17);
}
```

12. Now our web service is ready now right click on project and click on deploy



13. Now right click on web service and click on “test web service” you will get the following output:



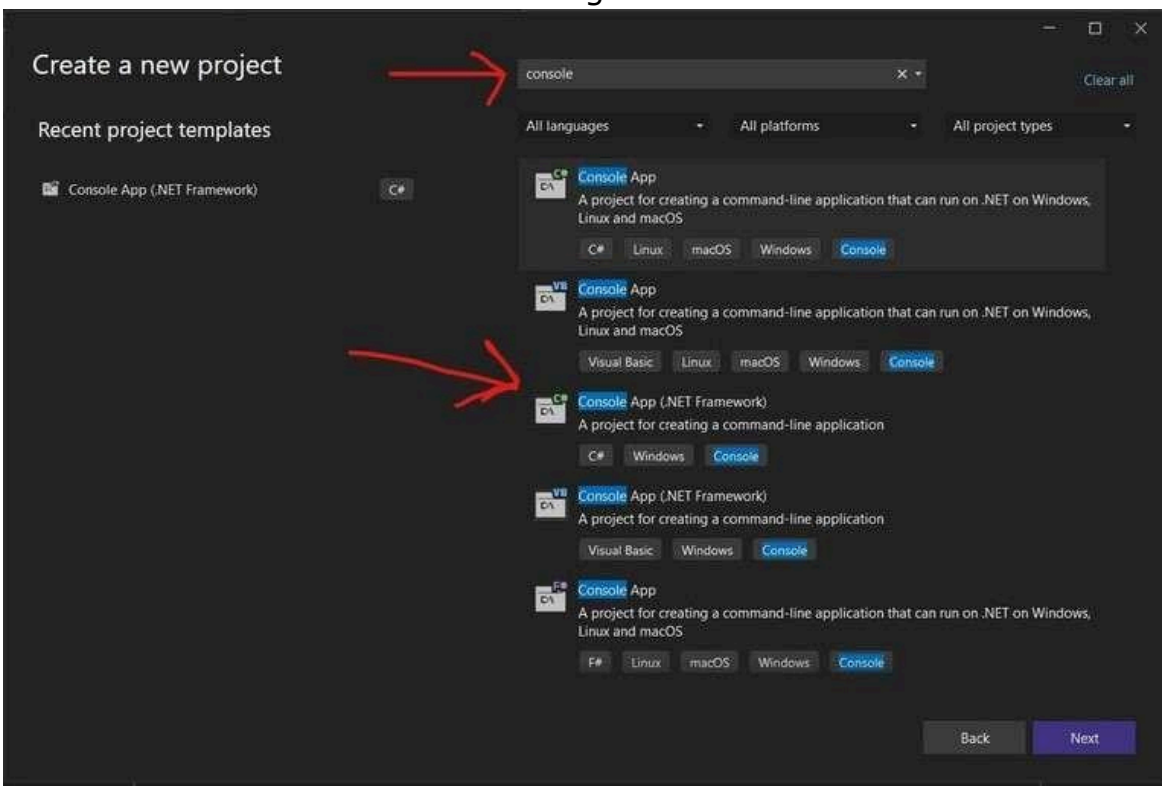


So this is how we created our web service and deployed it.

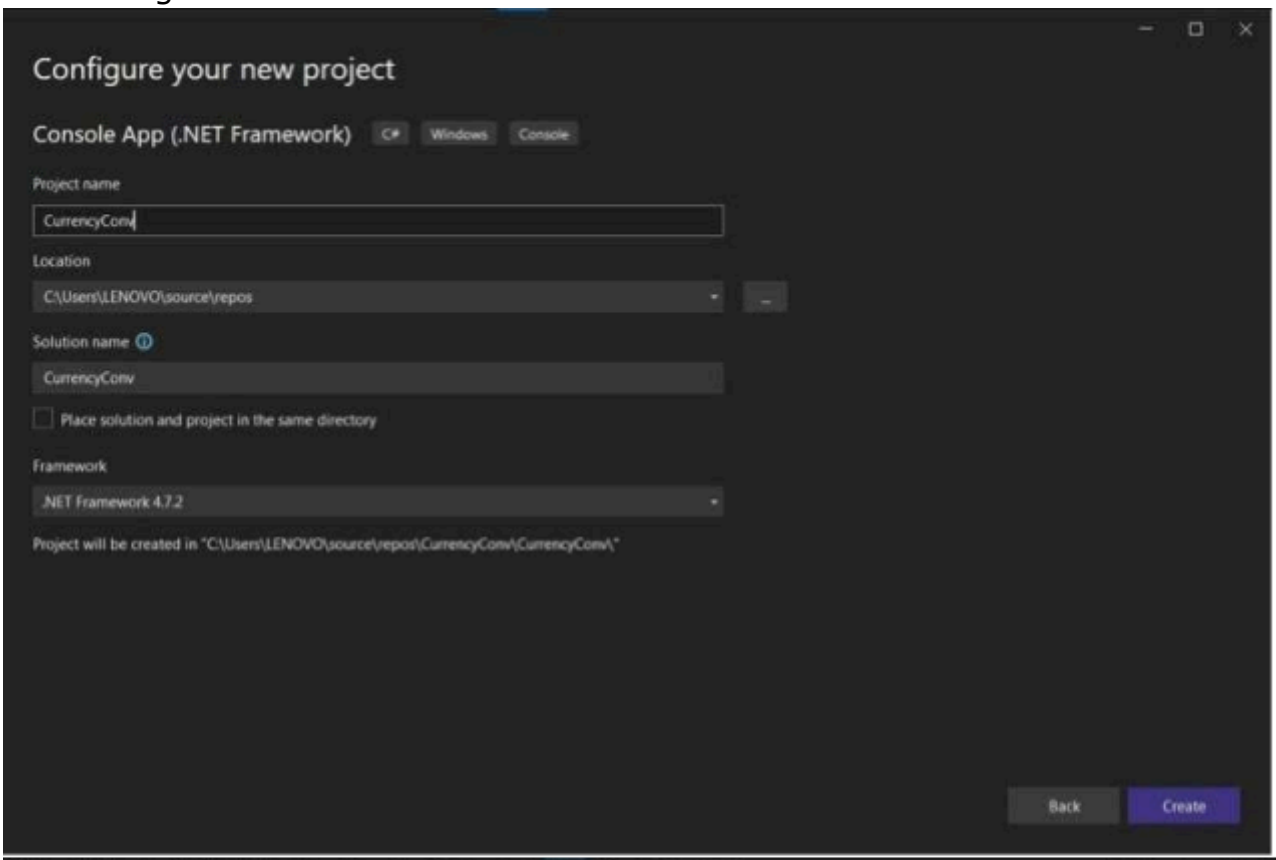
Creating a .Net Client

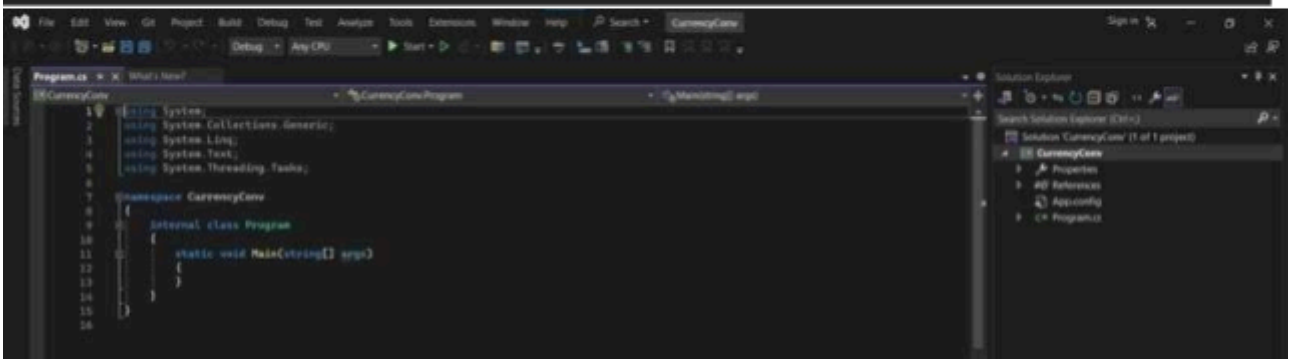
14. Open visual studio and select create a new project the following window will appear:

Here in search bar type "console c#" and select the console app for the .Net framework as shown in the image.



15. Give name to the project and press create button as shown in the image:

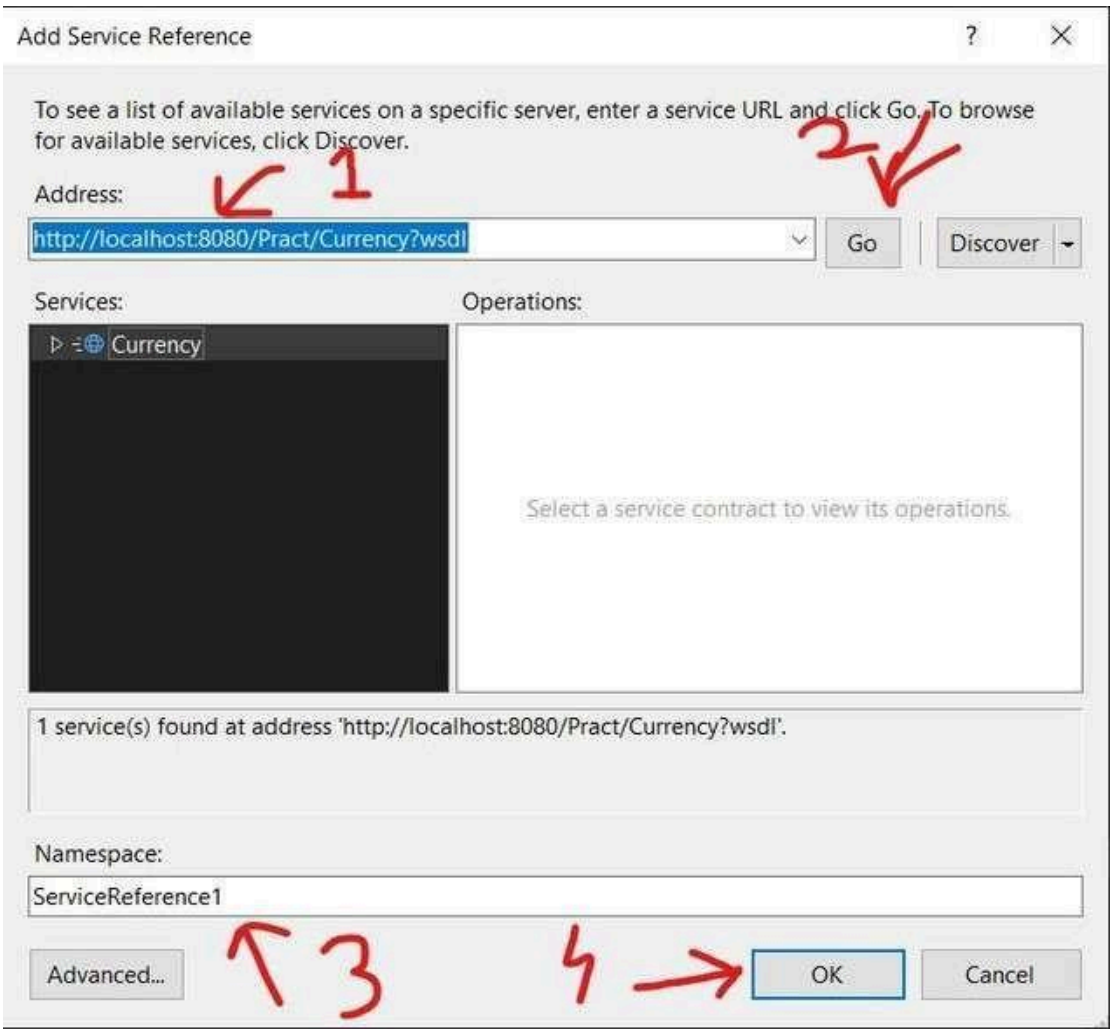




16. This window should appear after clicking the create button now. On the right side there is solution Explorer.

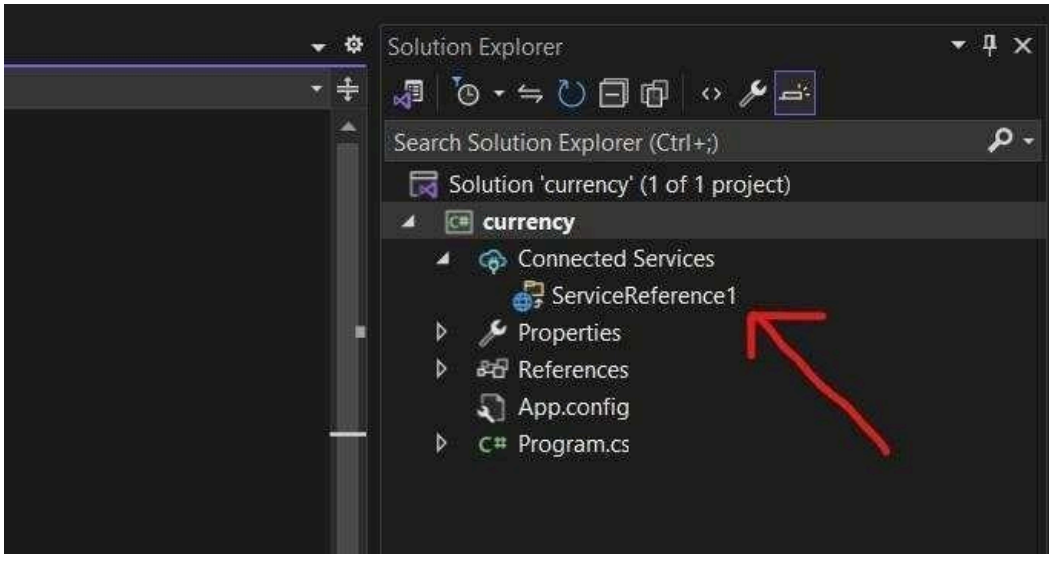
In that right click on your project name and click on add > Service Reference . You will get the following window :

Note: before executing the code make sure that the web service is deployed.



17. Here in the address bar paste the wsdl url. And press the go button . After set the namespace In my case I am letting is as it is then press ok button.

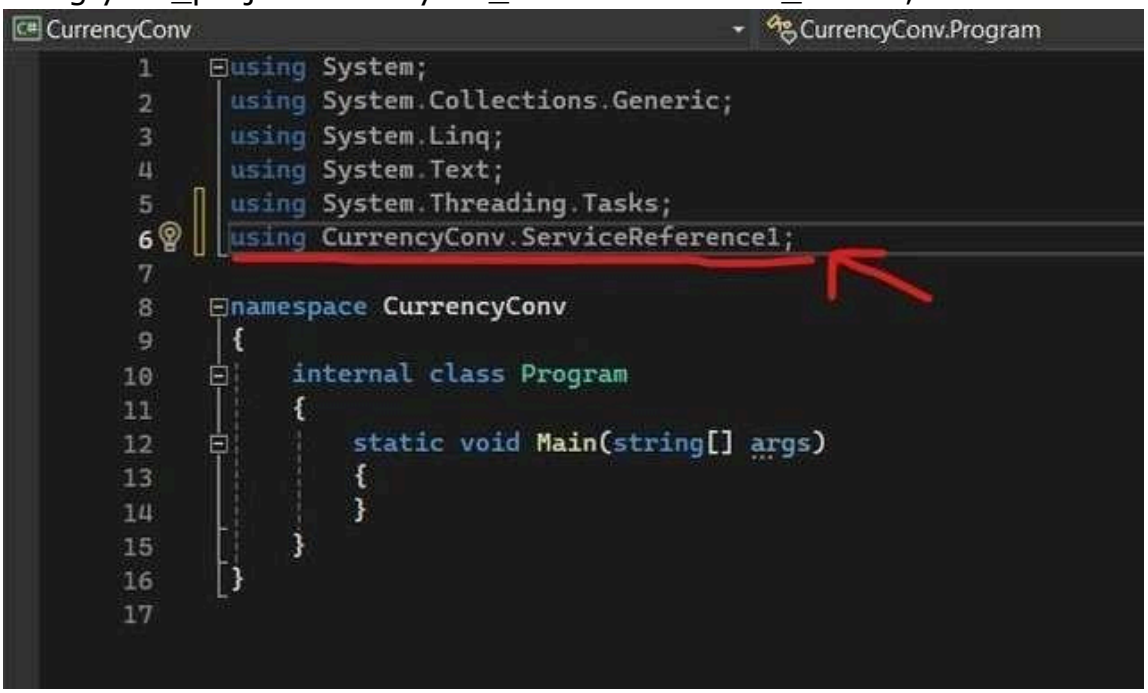
    In following image u can check in solution Explorer service reference was created.:



18. Now in code write the following line as shown in image:

Here type:

Using your_projectname .your_serviceReference_name ;



19. Now write the code as shown in the following image:

Note:

Here CurrencyClient is my webservice class name and **operation() is my method name** as show you can also check your own

20. When you run the above code you get the following output: