

Assignment No. 3.

1432121

Aim:- To develop any distributed application with CORBA using IDL.

Problem Statement:- Develop any distributed application with CORBA program using JAVA IDL.

Objective:- implement distributed application using CORBA.

Theory:-

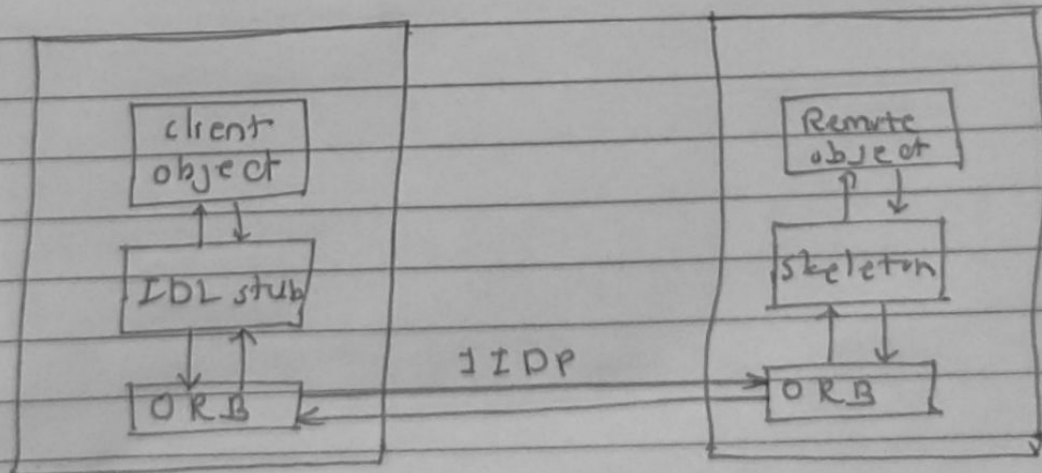
CORBA:-

- 1) It stands for Common Object Request Broker Architecture.
- 2) It is a specification for creating distributed objects and not a programming language.
- 3) It prompts designs of applications as a set of co-operating objects. clients are connected to server by interface.
- 4) CORBA Objects run on any platform, can be located anywhere on the network and can be written in any language.
- 5) CORBA application is developed using interface definition language. The IDL is used to define interfaces.
- 6) CORBA is integral part of JAVA platform. It consists of object Request Broker, API's for RMI programming model and API's for the IDL programming model.
- 1) IDL interface Definition language which defines protocol to access objects etc.

and pretends to be remote object.

* Architecture.

- 1) ORB is Object manager in CORBA.
It is present on client side as well as server side of the remote object.
- 2) On the client side, ORB is responsible for
 - accepting response for a remote object.
 - finding implementation of object.
 - accepting client side reference to the remote object.
 - routing client method calls through the object reference to object implementation.
- 3) On the server side, the ORB
 - lets object servers register new objects.
 - receive request from client ORB.
 - Uses objects selection interface to invoke objects activation method.
- 4) Between the ORB's, Internet Inter ORB protocol is used for communication.



* Jan 201.

on the client side the application includes two references for the remote object. The object reference has a stub method, which is a land in for method being called remotely. The stub is actually wired in the ORB, so that calling it invoke the ORB's connection capabilities.

Conclusion:-

Thus, I have studied various CORBA elements like IDL, IIOP, stub, ORB and implemented a distributed application in CORBA.