Assignment No - 1b

Rmi implementation

Rmi implementation steps:

- 1. Create all java files and compile using javac command, it will generate .class files
- 2. Generate stubs invoking rmic AddServerImpl it will generate AddServerImpl_Stub.class file.
- 3. Copy **AddClient.class**, **AddServerImpl_Stub.class**, and **AddServerIntf.class** to a directory on the client machine.
- 4.. Copy AddServerIntf.class, AddServerImpl_Stub.class, and AddServer.class to a directory on the server machine.
- 5. Start the RMI Registry on the Server Machine using rmiregistry
- 6. Start the Server using **java AddServer** in new terminal
- 7.Start the Client **java AddClient servername/ip_address 8 9** in new terminal where servername is first arguement and 8, 9 are second & third arguement respectively.

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CODE:-
ADDCilent, java:-
import java.rmi.*;
public class AddClient {
public static void main(String args[]) {
try {
String addServerURL = "rmi://" + args[0] + "/AddServer";
AddServerIntf addServerIntf =
(AddServerIntf)Naming.lookup(addServerURL);
System.out.println("The first number is: " + args[1]);
double d1 = Double.valueOf(args[1]).doubleValue();
System.out.println("The second number is: " + args[2]);
double d2 = Double.valueOf(args[2]).doubleValue();
System.out.println("The sum is: " + addServerIntf.add(d1, d2));
}
catch(Exception e) {
System.out.println("Exception: " + e);
}
```

```
ADDServer.java:-
import java.net.*;
import java.rmi.*;
public class AddServer {
public static void main(String args[]) {
try {
AddServerImpl addServerImpl = new AddServerImpl();
Naming.rebind("AddServer", addServerImpl);
}
catch(Exception e) {
System.out.println("Exception: " + e);
}
}
ADDServerImpl:-
import java.rmi.*;
import java.rmi.server.*;
public class AddServerImpl extends UnicastRemoteObject
implements AddServerIntf {
public AddServerImpl() throws RemoteException {
}
public double add(double d1, double d2) throws RemoteException {
return d1 + d2;
}
}
ADDServerIntf:-
import java.rmi.*;
public interface AddServerIntf extends Remote {
double add(double d1, double d2) throws RemoteException;
}
```