Lab 6

* Create RMI IIOP application in which take a sentence at runtime on the client application and let the server return its reverse.  
  E.g. input could be: subject is distributed computing   
  output should be: computing distributed is subject.

Task 1:

**sentInterfaceIIOP.java**

import java.rmi.Remote;

public interface sentInterfaceIIOP extends Remote {

public String reverseSent( String sent ) throws java.rmi.RemoteException;

}

RemoteObjectClass.java:

import javax.rmi.PortableRemoteObject;

import java.rmi.RemoteException;

public class sentImplIIOP extends PortableRemoteObject implements sentInterfaceIIOP{

public sentImplIIOP() throws RemoteException{

super();

}

public String reverseSent( String sent) throws RemoteException{

String[] words = sent.split("\\s");

String outputString="";

for (int i = words.length-1; i >= 0;i--){

outputString = outputString + words[i] +" ";

}

return outputString;

}

}

**sentServerIIOP.java**

import javax.naming.InitialContext;

import javax.naming.Context;

public class sentServerIIOP {

public static void main(String args[]) {

try {

sentImplIIOP sentRef = new sentImplIIOP();

Context initialNamingContext = new InitialContext();

initialNamingContext.rebind("ReverseSentence", sentRef );

System.out.println("Hello!!! Server: Ready...");

} catch (Exception e) {

System.out.println("Trouble: " + e);

e.printStackTrace();

}}}

**HelloClientIIOP.java**

import java.net.MalformedURLException;

import javax.rmi.\*;

import java.rmi.\*;

import java.util.Vector;

import javax.naming.\*;

import java.io.\*;

public class HelloClientIIOP{

public static void main(String args[]){

Context ic;

Object objref;

HelloInterfaceIIOP hi;

try{

ic =new InitialContext();

objref=ic.lookup("hello service");

System.out.println("client obt a ref to hello server");

hi=(HelloInterfaceIIOP)PortableRemoteObject.narrow(

objref,HelloInterfaceIIOP.class);

System.out.println(hi.sayHello("mars"));

}

catch(Exception e){

System.out.println(e);

return;

}}}

**Output:**



