

SA - EXPERIMENT NO. 4

Java RMI Display Message APP

1. Create a Java project.
2. Create a package in the project and name it pkg_RMI.
3. Create an interface and name it RMI_interface. Add following code:

```
package pkg_RMI;

import java.rmi.Remote;
import java.rmi.RemoteException;

public interface RMI_interface extends Remote{

    public void displayMessage() throws RemoteException;

}
```

4. Create a class and name it RMI_Server. Add following code:

```
package pkg_RMI;

import java.rmi.server.UnicastRemoteObject;
import java.rmi.AlreadyBoundException;
import java.rmi.RemoteException;
import java.rmi.registry.LocateRegistry;
import java.rmi.registry.Registry;
import java.rmi.server.UnicastRemoteObject;

public class RMI_Server extends UnicastRemoteObject implements
RMI_interface{

    public RMI_Server() throws RemoteException {
        super();
    }

    public static void main(String[] args) throws RemoteException,
AlreadyBoundException {
        try {
            Registry registry =
LocateRegistry.createRegistry(1878);
            registry.bind("hello", new RMI_Server());
            System.out.println("The RMI_Server is running and
ready...");
        }
        catch (Exception e) {
            System.out.println("The RMI_Server is not
running...");
        }
    }

    @Override
    public void displayMessage() throws RemoteException{

        System.out.println("-----");
        System.out.println("Hello Drashti!");
    }
}
```

```
System.out.println("-----");  
  
    }  
  
}
```

5. Create a class and name it RMI_Client. Add following code:

```
package pkg_RMI;  
  
import java.net.MalformedURLException;  
import java.rmi.RemoteException;  
import java.rmi.NotBoundException;  
import java.rmi.Naming;  
  
public class RMI_Client {  
  
    public static void main(String[] args) throws  
MalformedURLException, RemoteException, NotBoundException{  
        try {  
            RMI_interface helloAPI = (RMI_interface)  
Naming.lookup("rmi://localhost:1878/hello");  
            helloAPI.displayMessage();  
        }  
        catch (Exception e)  
        {  
            System.out.println("The RMI APP is not running...");  
            e.printStackTrace();  
        }  
    }  
  
}
```

6. Run the server first.

7. Now run the client.