**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;

}

1. **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("----------------------------------------------");

}

}

1. **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();

}

}

}

1. **Run the server first.**
2. **Now run the client.**