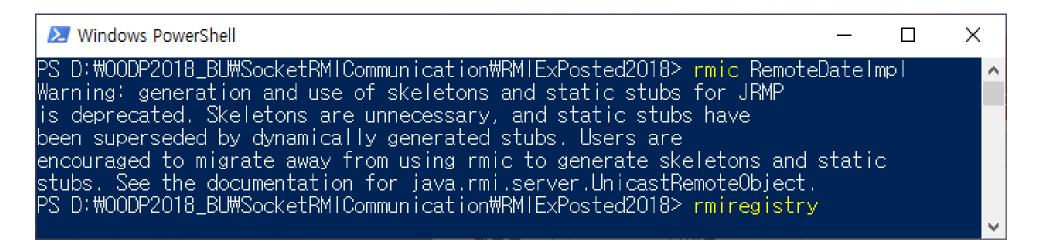
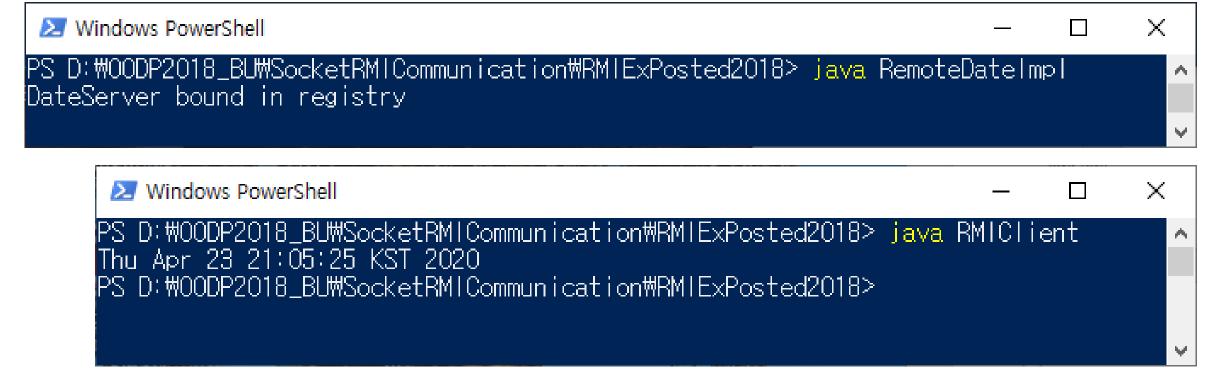
Program Test Java RMI

OODP 2020 Java RMI

Compile and run the given example RMI program.

- 1. javac RemoteDateImpl.java
- 2. rmic RemoteDateImple
- 3. rmiregistry
- 4. java RemoteDateImpl
- 5. javac RMIClient.java
- 6. java RMIClient





```
public class RemoteDateImpl extends UnicastRemoteObject implements RemoteDate
   public RemoteDateImpl() throws RemoteException { }
  public Date getDate() throws RemoteException {
      return new Date();
  public static void main(String[] args) {
      try {
     RemoteDate dateServer = new RemoteDateImpl();
         // Bind this object instance to the name "DateServer"
         Naming.rebind("DateServer", dateServer);
         System.out.println("DateServer bound in registry");
      catch (Exception e) {
         System.err.println(e);
                                         public interface RemoteDate extends Remote
                                           public abstract Date getDate() throws RemoteException;
```

```
public class RMIClient
  public static void main(String args[]) {
  try {
 String host = "rmi://127.0.0.1/DateServer";
    RemoteDate dateServer =
               (RemoteDate) Naming.lookup(host);
    System.out.println(dateServer.getDate());
   catch (Exception e) {
      System.err.println(e);
```

Modify and expand the RMI example program and to a peer to peer communication.

For this program, there is no distinction between a server and a client.



The output below shows that "DateServer" displays the date sent from "DateClientServer".

```
PS F:\00DP2015Spr\SocketRMICommunication\RMI_Bi_Direction> java RemoteDateImpl2
DateServer bound in registry
Tue Apr 21 03:11:00 KST 2020
```

The output below shows that "DateClientServer" displays the date sent from "DateServer".

PS F:\00DP2015Spr\SocketRMICommunication\RMI_Bi_Direction> java RMIClientImpI2 DateClientServer bound in registry Tue Apr 21 03:10:50 KST 2020