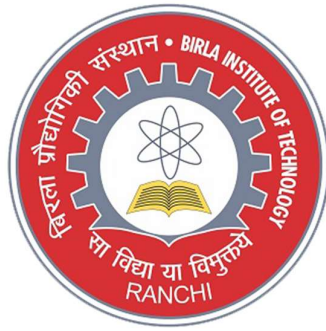


Birla Institute of Technology, Mesra,  
Patna Campus



DCCN-Assignment

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Roll-Btech/15044/18

Sec-CSE 6<sup>th</sup>

# Dec 2 Assignment - 04 :-

# java RMI program to implement  
the search interface :-

```
import java.rmi.*;  
import java.rmi.server.*;  
public class SearchQuery extends  
    UnicastRemoteObject implements  
        Search {
```

```
    SearchQuery() throws RemoteException  
    {  
        super();
```

```
    }  
    public String query (String search)  
        throws RemoteException  
    {  
        String result;
```

```
        if (search.equals("Reflection in  
            java"))  
            result = "found";
```

```
        else
```

```
result = "Not found";  
return result;
```

\* Server application :-

```
import java.rmi.*;  
import java.rmi.registry.*;  
public class SearchServer {  
    {
```

```
    public static void main (String  
        args[])
```

```
    {  
        try
```

```
        {  
            Search obj = new SearchQuery();  
            LocateRegistry.createRegistry(1900);
```

```
            Naming.rebind("rmi://localhost:1900/  
                + "/geeksforgeeks", obj);
```

```
        }
```

```
    }  
    catch (Exception ex) {
```



Date \_\_\_\_\_

```
System.out.println(m1);
```

```
}
```

```
}
```

\* client application :-

```
import java.*;
```

```
public class clientRequest {
```

```
public static void main(String args[])
```

```
{
```

```
String answer, value = "Reflection in  
Java";
```

```
try {
```

```
Search access =
```

```
(Search) Naming.lookup("rmi://
```

```
localhost:1900" + "/geeksforgeeks");
```

```
answer = access.Query(value);
```

```
System.out.println("Article on " + value +  
" " + answer + " at geeksforgeeks");
```

```
}
```

```
catch (Exception ae) {
```

```
    System.out.println(ae);
```

```
}
```

```
}
```

```
}
```

```
C:\WINDOWS\system32\cmd.exe
Microsoft Windows [Version 10.0.14393]
(c) 2016 Microsoft Corporation. All rights reserved.

C:\Users\>cd C:\EXAMPLES\rmi

C:\EXAMPLES\rmi>javac *.java

C:\EXAMPLES\rmi>start rmiregistry

C:\EXAMPLES\rmi>
```

Java Server

```
C:\WINDOWS\system32\cmd.exe - java Server

C:\EXAMPLES\rmi>java Server
Server ready
-
```

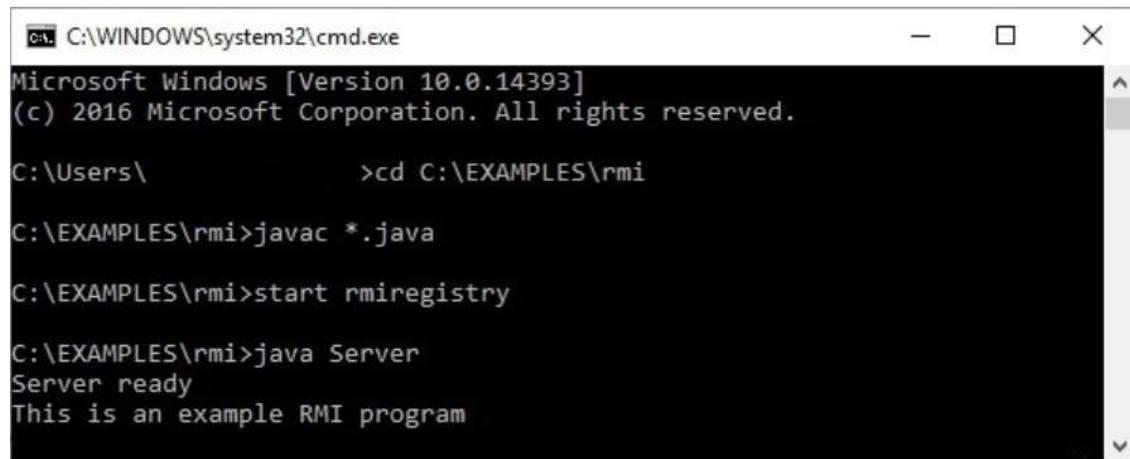
java Client

```
C:\WINDOWS\system32\cmd.exe - java Client

Microsoft Windows [Version 10.0.14393]
(c) 2016 Microsoft Corporation. All rights reserved.

C:\Users\Tutorialspoint>cd C:\EXAMPLES\rmi

C:\EXAMPLES\rmi>java Client
```



```
C:\WINDOWS\system32\cmd.exe
Microsoft Windows [Version 10.0.14393]
(c) 2016 Microsoft Corporation. All rights reserved.

C:\Users\          >cd C:\EXAMPLES\rmi
C:\EXAMPLES\rmi>javac *.java
C:\EXAMPLES\rmi>start rmiregistry
C:\EXAMPLES\rmi>java Server
Server ready
This is an example RMI program
```