

## Practical No : 2

Roll No : B -09

Date: 28/8/20

### Program 2: Implement concept of RMI

**Client :**

```
import Pyro4

ns= Pyro4.locateNS()

uri = ns.lookup('obj')

o= Pyro4.Proxy(uri)

j=int(input("Squar of Number:"))
print(o.sq(j))

#start server first pyro4-ns
```

**Server:**

```
import Pyro4

@Pyro4.expose
class Sq:
    def sq(self,j):
        return (j**2)

daemon = Pyro4.Daemon()

uri = daemon.register(Sq)

ns = Pyro4.locateNS()

ns.register('obj', uri)
print(uri)

daemon.requestLoop()
```

## OUTPUT:

```
C:\Windows\System32\cmd.exe - python se2ser.py
Microsoft Windows [Version 10.0.17134.1006]
(c) 2018 Microsoft Corporation. All rights reserved.

E:\rohan\CSE 7\DS>python se2ser.py
PYRO:obj_068521236f1a455eb47ccba0c8fa983a@localhost:12972

C:\Windows\System32\cmd.exe - pyro4-ns
Microsoft Windows [Version 10.0.17134.1006]
(c) 2018 Microsoft Corporation. All rights reserved.

E:\rohan\CSE 7\DS>pyro4 -ns
'pyro4' is not recognized as an internal or external command,
operable program or batch file.

E:\rohan\CSE 7\DS>Pyro4 -ns
'Pyro4' is not recognized as an internal or external command,
operable program or batch file.

E:\rohan\CSE 7\DS>pyro4-ns
Not starting broadcast server for localhost.
NS running on localhost:9090 (127.0.0.1)
Warning: HMAC key not set. Anyone can connect to this server!
URI = PYRO:Pyro.NameServer@localhost:9090
```

```
C:\Windows\System32\cmd.exe
File "C:\Users\rohan\AppData\Local\Programs\Python\Python38-32\lib\site-packages\Pyro4\core.py", line 185, in __call__
    return self.__send(self.__name, args, kwargs)
File "C:\Users\rohan\AppData\Local\Programs\Python\Python38-32\lib\site-packages\Pyro4\core.py", line 476, in _pyroInvoke
    raise data # if you see this in your traceback, you should probably inspect the remote traceback as well
Pyro4.errors.NamingError: unknown name: obj

E:\rohan\CSE 7\DS>python se2cli.py
Squar of Number:4
16

E:\rohan\CSE 7\DS>python se2cli.py
Squar of Number:25
625

E:\rohan\CSE 7\DS>
```

Activate Windows  
Go to Settings to activate Windows.