

Practical No : 1

Roll No : B -09

Date: 21/8/20

Program 1: Implement concept of RPC

Client :

```
import xmlrpc.client
```

```
with xmlrpc.client.ServerProxy("http://localhost:8000/") as proxy:
```

```
    print("For 77 is %s" %str(proxy.countCoin(77)))
```

```
    print("For 20 is %s" %str(proxy.countCoin(20)))
```

Server:

```
from xmlrpc.server import SimpleXMLRPCServer
```

```
import math as m
```

```
def sr(i):
```

```
    return 2**i
```

```
def countCoin(n):
```

```
    for _ in range(1):
```

```
        p=0
```

```
        for i in range(0,n):
```

```
            #print(sr(i),i)
```

```
            if n>=sr(i):
```

```
                p+=1
```

```
            else:
```

```
                break
```

```
    return(p)
```

```
server = SimpleXMLRPCServer(("localhost",8000))
```

```
print("server listening on 8000")
```

```
server.register_function(countCoin,"countCoin")
```

```
server.serve_forever()
```

OUTPUT:

```
C:\Windows\System32\cmd.exe - python sr.py
server = SimpleXMLRPCServer(("localhost"),8000)
File "C:\Users\rohan\AppData\Local\Programs\Python\Python38-32\
lib\xmlrpc\server.py", line 605, in __init__
socketserver.TCPServer.__init__(self, addr, requestHandler, b
ind_and_activate)
File "C:\Users\rohan\AppData\Local\Programs\Python\Python38-32\
lib\socketserver.py", line 452, in __init__
self.server_bind()
File "C:\Users\rohan\AppData\Local\Programs\Python\Python38-32\
lib\socketserver.py", line 466, in server_bind
self.socket.bind(self.server_address)
TypeError: bind(): AF_INET address must be tuple, not str

E:\rohan\CSE 7\DS>python sr.py
server listening on 8000
127.0.0.1 - - [22/Aug/2020 19:47:50] "POST / HTTP/1.1" 200 -
127.0.0.1 - - [22/Aug/2020 19:47:51] "POST / HTTP/1.1" 200 -

C:\Windows\System32\cmd.exe
self.connect()
File "C:\Users\rohan\AppData\Local\Programs\Python\Python38-32\
lib\http\client.py", line 915, in connect
self.sock = self._create_connection(
File "C:\Users\rohan\AppData\Local\Programs\Python\Python38-32\
lib\socket.py", line 808, in create_connection
raise err
File "C:\Users\rohan\AppData\Local\Programs\Python\Python38-32\
lib\socket.py", line 796, in create_connection
sock.connect(sa)
ConnectionRefusedError: [WinError 10061] No connection could be m
ade because the target machine actively refused it

E:\rohan\CSE 7\DS>python cl.py
For 77 is 7
For 20 is 5

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

Activate Windows
Go to Settings to activate Windows.