

'''Name - Mane Shivraj Pandurang.

Class - BE Artificial Intelligence and Data Science.

Roll No. - 37

Practical No. 02- Design a distributed application using RMI for remote computation where client submits two strings to the server and server returns the concatenation of the given strings. '''

---

### Source Code:

#### Client.py:

```
Client.py > ...
1  import Pyro4
2
3  # Get the server object using its URI
4  uri = input("Enter the server URI : ")
5  string_concatenator = Pyro4.Proxy(uri)
6
7  # Get inputs string from the user
8  str1 = input("Enter first string : ")
9  str2 = input("Enter second string : ")
10
11 # Call the remote method on the server
12 result = string_concatenator.concatenate(str1, str2)
13
14 print("Concatenated String : ", result)
```

### Output:

Enter the server URI:

PYRO:obj\_3f70c6b68e9e4712a73a4167337c1e58@localhost:61368

Enter first string: Hello

Enter second string: World

Concatenated String: Hello World

## Server.py:

```
Server.py > ...
1  import Pyro4
2
3  @Pyro4.expose
4  class StringConcatenator(object):
5      def concatenate(self, str1, str2):
6          return str1 + " " + str2
7
8  # Register the StringConcatenator class as a Pyro Object
9  daemon = Pyro4.Daemon()
10 uri = daemon.register(StringConcatenator)
11
12 print("Server URI : ", uri)
13
14 # Start the server
15 daemon.requestLoop()
16
17
```

## Output –

Server URI: PYRO:obj\_3f70c6b68e9e4712a73a4167337c1e58@localhost:61368