

## **rmi\_server.py**

```
import Pyro4

# Define a class with the remote method
@Pyro4.expose
class StringConcatenator:
    def concatenate(self, str1, str2):
        return str1 + str2

# Start the Pyro4 daemon and register the object
def main():
    daemon = Pyro4.Daemon()          # Create a Pyro daemon
    ns = Pyro4.locateNS()             # Find the name server
    uri = daemon.register(StringConcatenator) # Register the class as a Pyro object
    ns.register("example.concat", uri) # Register the object with a name
    print("Server is ready. URI:", uri)
    daemon.requestLoop()              # Start the event loop

if __name__ == "__main__":
    main()
```

## **rmi\_client.py**

```
import Pyro4

uri = "PYRONAME:example.concat"      # Lookup the object in the name server
concatenator = Pyro4.Proxy(uri)      # Create a proxy for the remote object
str1 = input("Enter first string: ")
str2 = input("Enter second string: ")
result = concatenator.concatenate(str1, str2)
print("Concatenated String:", result)
```

```
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PS C:\Users\shrey\Downloads\CL3> 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
|
```

```
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PS C:\Users\shrey\Downloads\CL3> python rmi_server.py
Server is ready. URI: PYRO:obj_384927d41eeb4906b4a3e789182a3c2f@localhost:49968
|
```

```
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PS C:\Users\shrey\Downloads\CL3> python rmi_client.py
Enter first string: ans
Enter second string: sdf
Concatenated String: anssdf
PS C:\Users\shrey\Downloads\CL3> python rmi_client.py
Enter first string: hello
Enter second string: world
Concatenated String: helloworld
PS C:\Users\shrey\Downloads\CL3> |
```