

```

1 import channel, pickle
2
3 class DBList:
4     def append(self, data):
5         self.value.extend(data)
6         return self
7
8 class Client:
9     def append(self, data, dbList):
10         msglst = (APPEND, data, dbList)           # message payload
11         self.channel.sendTo(self.server, msglst)   # send message to server
12         msgrcv = self.channel.recvFrom(self.server) # wait for an incoming message
13
14         # A call to recvFrom returns a [senderID, message] pair
15         return msgrcv[1]                           # pass returned message to caller
16
17 class Server:
18     def append(self, data, dbList):
19         return dbList.append(data)
20
21     def run(self):
22         while True:
23             msgreq = self.channel.recvFromAny() # wait for any request
24             client = msgreq[0]                  # see who is the caller
25             msgrpc = msgreq[1]                  # fetch the actual request
26
27             # At this point, msgreq should have the form (operation, data, list)
28             if APPEND == msgrpc[0]:              # check what is being requested
29                 result = self.append(msgrpc[1], msgrpc[2]) # do local call
30                 self.channel.sendTo(client, result)         # return response

```