

Code:

Server Side:

```
1  # Authored by Danyl Fernandes
2  # SE COMPS, 72
3
4  import socket
5
6  def calculate_sum(data):
7      data_sum = 0
8      for i in data:
9          data_sum += i
10     return data_sum
11
12
13  HOST = '127.0.0.1'
14  PORT = 50007
15
16  s = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
17  s.bind((HOST, PORT))
18  s.listen(1)
19
20  conn, addr = s.accept()
21  print("Connected by", addr)
22
23  while 1:
24      data = conn.recv(1024)
25      if not data: break
26      print("SERVER RECIEVED : ", repr(data))
27      calculate_sum(data)
28      conn.sendall(data)
29  conn.close()
```

Client Side:

```
1  # Authored by Danyl Fernandes
2  # SE COMPS, 72
3
4  import socket
5
6  HOST = '127.0.0.1'
7  PORT = 50007
8
9  s = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
10 s.connect((HOST, PORT))
11
12 data = []
13 for i in range(1, 3):
14     data.append(int(input("Enter no." + str(i) + ": ")))
15
16 s.sendall(data)
17 sum = s.recv(1024)
18 print("CLIENT RECIEVED : Sum ", sum)
19
20 s.close()
```

Output:

Server Side:

```
dan@home > ~/Desktop
🏠 -> python3 server.py
Connected by ('127.0.0.1', 50118)
CLIENT SAYS: 2,6
```

Client Side:

```
dan@home > ~/Desktop
🏠 -> python3 client.py
Enter no. 1: 2
Enter no. 2: 6
SERVER REPLIED WITH: Sum is 8
```