

Socket programming using python

it is a way of connecting 2 nodes on a network to communicate with each other. one socket (node) listens to a particular port at an IP while the other one reads out to form a connection.

but we have to import a socket library.

server.py

```
import socket
```

```
s = socket.socket()
```

```
print("socket created")
```

```
s.bind(("localhost", 9999))
```

```
s.listen(3)
```

```
print("waiting for connection")
```

```
while True:
```

```
    c, addr = s.accept()
```

```
    print("connected with", addr)
```

```
    c.send("welcome")
```

```
    c.send(bytes("welcome", 'utf-8'))
```

```
    c.close()
```

client.py

```
import socket
```

```
c = socket.socket()
```

```
c.connect(("localhost", 9999))
```

```
print(c.recv(1024))
```

code in the buffer are
just run server. by then run client

you can use deque to print it in sharing
format

- Python is one of the best scripting languages. vast variety of libraries allows us to write scripts for development cycle
- provides structured and readable automatic code
- accessibility & flexibility

Multi-threading in python

A thread is an entity in a process that can be scheduled for execution and is the smallest unit of processing.

- Multiple threads can exist within one process where each thread has
- its own register set & local variable
- All threads of a process share global variables and program code.

Multi-threading is the ability to process multiple thread concurrently