

## Assignment 1

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1. Write a client and server program using socket programming in python. To establish connection between server and client.

Server Code:

```
import socket
s = socket.socket() # creating socket object
print("socket Created")

s.bind(('localhost', 9999)) # Binding to localhost at port 9999
s.listen(3) # Listen to atmost 3 clients at a time
print("Waiting for connection")

# Running the socket to listed for client connections
message = "Welcome"
while True:
    c, addr = s.accept()
    print("Connected with ", addr)
    c.send(bytes("Welcome", 'utf-8'))
    c.close()
```

Client Code:

```
import socket
c = socket.socket()
c.connect(('localhost', 9999))
print("Connected to server")

msg = c.recv(1024)
print("Recieved Message: ", msg)

c.close()
```

Output:

```
> python socket_tut.py
socket Created
Waiting for connection
Connected with ('127.0.0.1', 50432)
```

```
> python client_tut.py
Connected to server
Recieved Message: b'Welcome'
```