```
s = socket.socket()        # Create a socket object

host = socket.gethostname() # Get local machine name

port = 12345               # Reserve a port for your service.

s.bind((host, port))       # Bind to the port


s.listen(5)                # Now wait for client connection.

while True:

   c, addr = s.accept()    # Establish connection with client.

   print 'Got connection from', addr

   c.send('Thank you for connecting')

   c.close()               # Close the connection
```

A Simple Client

Let us write a very simple client program which opens a connection to a given port 12345 and given host. This is very simple to create a socket client using Python's *socket* module function.

The **socket.connect(hosname, port)** opens a TCP connection to *hostname* on the *port*. Once you have a socket open, you can read from it like any IO object. When done, remember to close it, as you would close a file.

The following code is a very simple client that connects to a given host and port, reads any available data from the socket, and then exits:

```
#!/usr/bin/python          # This is client.py file


import socket              # Import socket module


s = socket.socket()        # Create a socket object

host = socket.gethostname() # Get local machine name

port = 12345               # Reserve a port for your service.
```