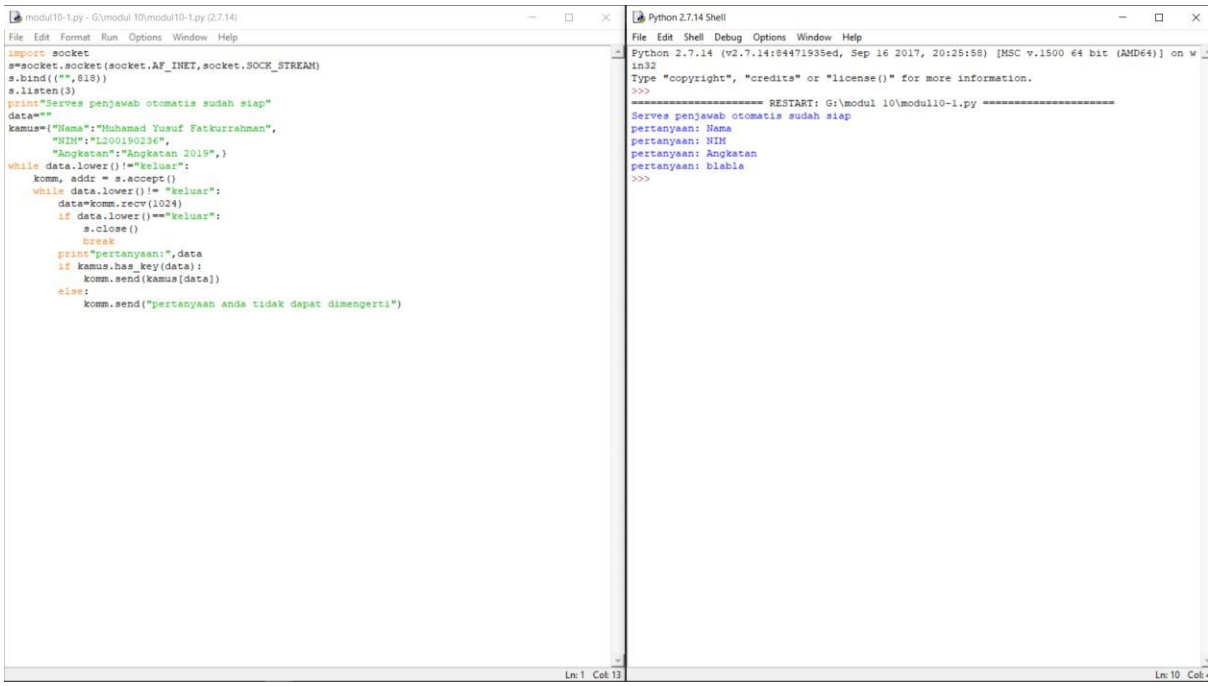
Kegiatan 1

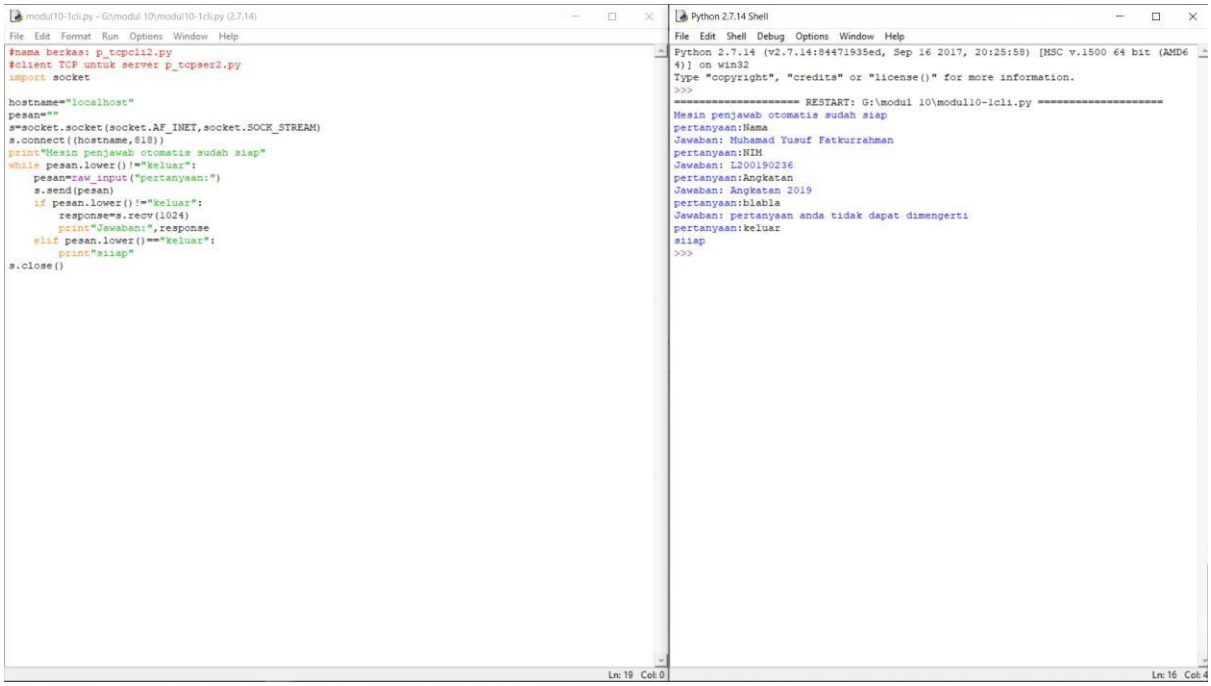
Server



```
import socket
s=socket.socket(socket.AF_INET,socket.SOCK_STREAM)
s.bind(("",818))
s.listen(3)
print"Serves penjawab otomatis sudah siap"
data=""
kamus={"Nama":"Muhamad Yusuf Fatkurrahman",
       "NIM":"L200190236",
       "Angkatan":"Angkatan 2019",}
while data.lower()!="keluar":
    komm, addr = s.accept()
    while data.lower()!= "keluar":
        data=komm.recv(1024)
        if data.lower()=="keluar":
            s.close()
            break
        print"pertanyaan:",data
        if kamus.has_key(data):
            komm.send(kamus[data])
        else:
            komm.send("pertanyaan anda tidak dapat dimengerti")
```

```
Python 2.7.14 (v2.7.14:84471935ed, Sep 16 2017, 20:25:58) [MSC v.1500 64 bit (AMD64)] on w
in32
Type "copyright", "credits" or "license()" for more information.
>>>
========== RESTART: G:\modul 10\modul10-1.py ==========
Serves penjawab otomatis sudah siap
pertanyaan: Nama
pertanyaan: NIM
pertanyaan: Angkatan
pertanyaan: blabla
>>>
```

Client



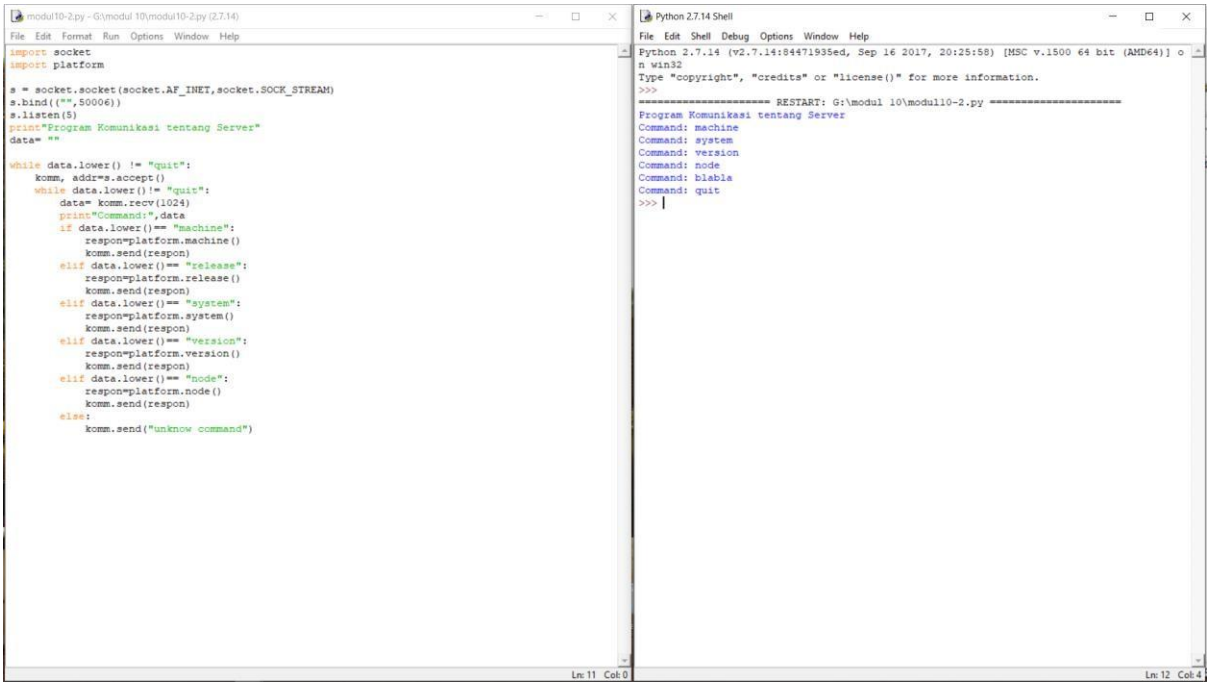
```
#nama berkas: p_tcpcli2.py
#client TCP untuk server p_tcpser2.py
import socket

hostname="localhost"
pesan=""
s=socket.socket(socket.AF_INET,socket.SOCK_STREAM)
s.connect((hostname,818))
print"Mesin penjawab otomatis sudah siap"
while pesan.lower()!="keluar":
    pesan=raw_input("pertanyaan:")
    s.send(pesan)
    if pesan.lower()!="keluar":
        response=s.recv(1024)
        print"Jawaban:",response
    elif pesan.lower()=="keluar":
        print"siiap"
s.close()
```

```
Python 2.7.14 (v2.7.14:84471935ed, Sep 16 2017, 20:25:58) [MSC v.1500 64 bit (AMD6
4)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
========== RESTART: G:\modul 10\modul10-1cli.py ==========
Mesin penjawab otomatis sudah siap
pertanyaan:Nama
Jawaban: Muhamad Yusuf Fatkurrahman
pertanyaan:NIM
Jawaban: L200190236
pertanyaan:Angkatan
Jawaban: Angkatan 2019
pertanyaan:blabla
Jawaban: pertanyaan anda tidak dapat dimengerti
pertanyaan:keluar
siiap
>>>
```

Kegiatan 2

Server



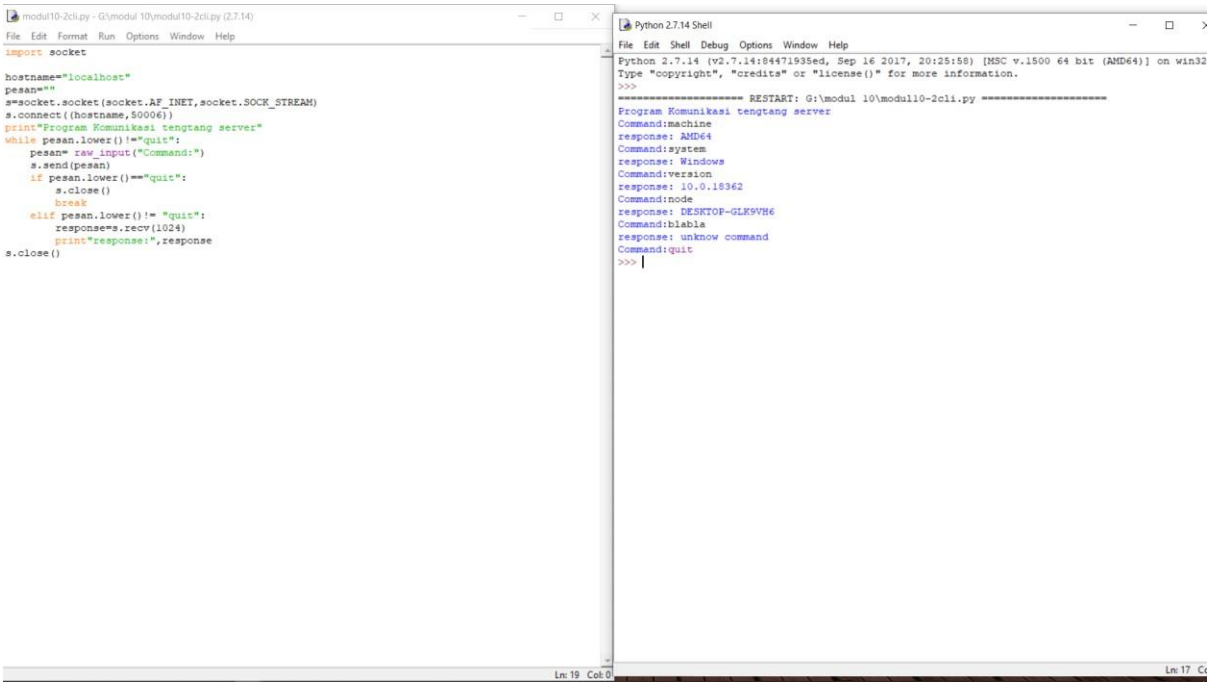
```
import socket
import platform

s = socket.socket(socket.AF_INET,socket.SOCK_STREAM)
s.bind(("",50006))
s.listen(5)
print"Program Komunikasi tentang Server"
data= ""

while data.lower() != "quit":
    komm, addr=s.accept()
    while data.lower()!= "quit":
        data= komm.recv(1024)
        print"Command:",data
        if data.lower()== "machine":
            respon=platform.machine()
            komm.send(respon)
        elif data.lower()== "release":
            respon=platform.release()
            komm.send(respon)
        elif data.lower()== "system":
            respon=platform.system()
            komm.send(respon)
        elif data.lower()== "version":
            respon=platform.version()
            komm.send(respon)
        elif data.lower()== "node":
            respon=platform.node()
            komm.send(respon)
        else:
            komm.send("unknow command")
```

```
Python 2.7.14 (v2.7.14:84471935ed, Sep 16 2017, 20:25:58) [MSC v.1500 64 bit (AMD64)] o
n win32
Type "copyright", "credits" or "license()" for more information.
>>>
========== RESTART: G:\modul 10\modul10-2.py ==========
Program Komunikasi tentang Server
Command: machine
Command: system
Command: version
Command: node
Command: blabla
Command: quit
>>>
```

Client



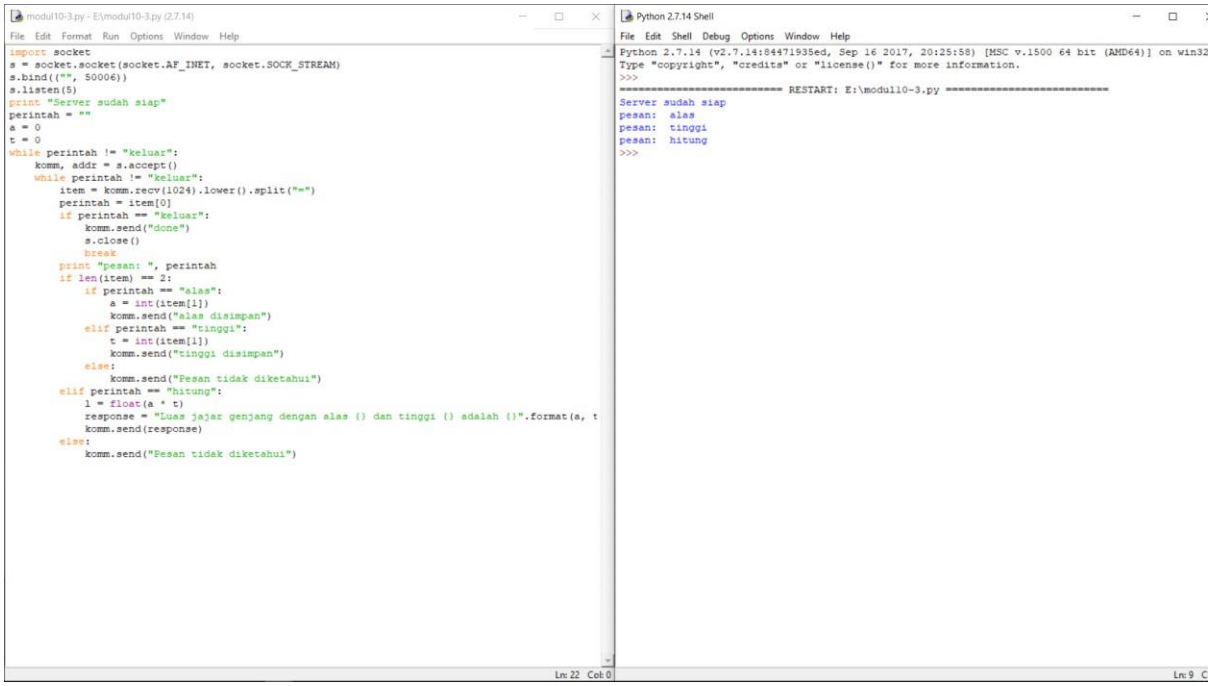
```
import socket

hostname="localhost"
pesan=""
s=socket.socket(socket.AF_INET,socket.SOCK_STREAM)
s.connect((hostname,50006))
print"Program Komunikasi tengtang server"
while pesan.lower()!="quit":
    pesan= raw_input("Command:")
    s.send(pesan)
    if pesan.lower()=="quit":
        s.close()
        break
    elif pesan.lower()!= "quit":
        response=s.recv(1024)
        print"response:",response
s.close()
```

```
Python 2.7.14 (v2.7.14:84471935ed, Sep 16 2017, 20:25:58) [MSC v.1500 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
========== RESTART: G:\modul 10\modul10-2cli.py ==========
Program Komunikasi tengtang server
Command:machine
response: AMD64
Command:system
response: Windows
Command:version
response: 10.0.18362
Command:node
response: DESKTOP-GLK9VH6
Command:blabla
response: unknow command
Command:quit
>>>
```

Kegiatan 3

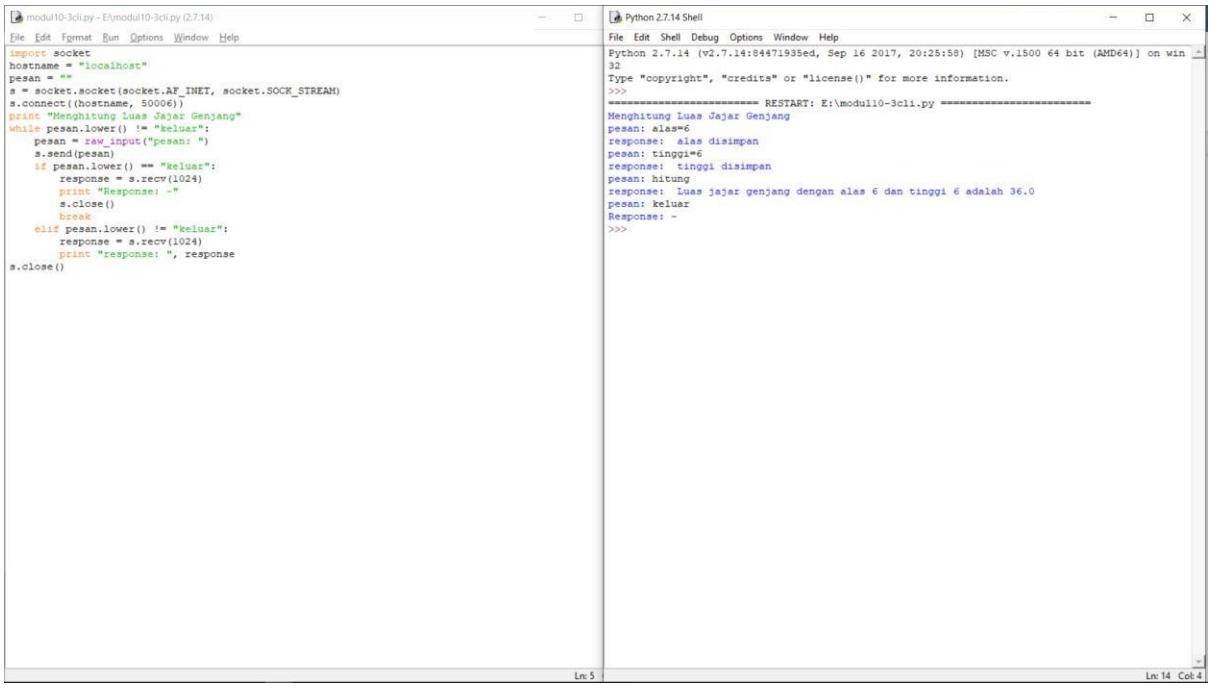
Server



```
import socket
s = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
s.bind(("", 50006))
s.listen(5)
print "Server sudah siap"
perintah = ""
a = 0
t = 0
while perintah != "keluar":
    komm, addr = s.accept()
    while perintah != "keluar":
        item = komm.recv(1024).lower().split("=")
        perintah = item[0]
        if perintah == "keluar":
            komm.send("done")
            s.close()
            break
        print "pesan: ", perintah
        if len(item) == 2:
            if perintah == "alas":
                a = int(item[1])
                komm.send("alas disimpan")
            elif perintah == "tinggi":
                t = int(item[1])
                komm.send("tinggi disimpan")
            else:
                komm.send("Pesan tidak diketahui")
        elif perintah == "hitung":
            l = float(a * t)
            response = "Luas jajar genjang dengan alas {} dan tinggi {} adalah {}".format(a, t
            komm.send(response)
        else:
            komm.send("Pesan tidak diketahui")
```

```
Python 2.7.14 (v2.7.14:84471935ed, Sep 16 2017, 20:25:58) [MSC v.1500 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
========== RESTART: E:\modul10-3.py ==========
Server sudah siap
pesan:  alas
pesan:  tinggi
pesan:  hitung
>>>
```

Client



```
import socket
hostname = "localhost"
pesan = ""
s = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
s.connect((hostname, 50006))
print "Menghitung Luas Jajar Genjang"
while pesan.lower() != "keluar":
    pesan = raw_input("pesan: ")
    s.send(pesan)
    if pesan.lower() == "keluar":
        response = s.recv(1024)
        print "Response: -"
        s.close()
        break
    elif pesan.lower() != "keluar":
        response = s.recv(1024)
        print "response: ", response
s.close()
```

```
Python 2.7.14 (v2.7.14:84471935ed, Sep 16 2017, 20:25:58) [MSC v.1500 64 bit (AMD64)] on win
32
Type "copyright", "credits" or "license()" for more information.
>>>
========== RESTART: E:\modul10-3cli.py ==========
Menghitung Luas Jajar Genjang
pesan: alas=6
response:  alas disimpan
pesan: tinggi=6
response:  tinggi disimpan
pesan: hitung
response:  Luas jajar genjang dengan alas 6 dan tinggi 6 adalah 36.0
pesan: keluar
Response: -
>>>
```