

## PRAKTIKUM MODUL 10

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### KEGIATAN 1

#### 1. Program pada sisi Server :

```
10K1ser.py - C:\Python27\Tugas\10K1ser.py (2.7.14)
File Edit Format Run Options Window Help
#Nama : Sherly Maycana Puspita Anwar
#NIM : L200190211
#Kegiatan 1_Server

import socket
s=socket.socket(socket.AF_INET, socket.SOCK_STREAM)
s.bind(('', 50002))

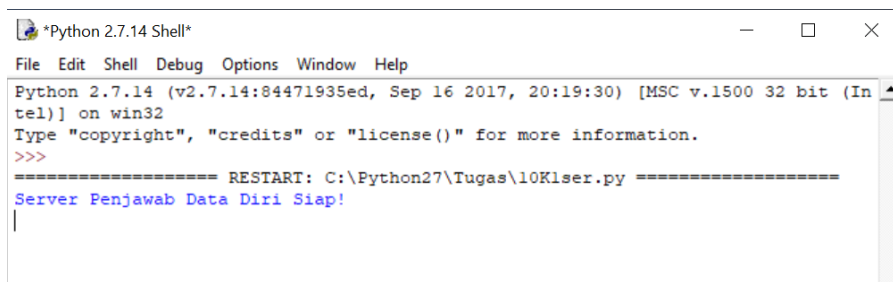
s.listen(5)
print"Server Penjawab Data Diri Siap!"
data=''
kamus={'nama' : 'Sherly Maycana Puspita Anwar',
       'NIM' : 'L200190211',
       'angkatan' : '2019'}
while data.lower() !='keluar':
    komm, addr=s.accept()
    while data.lower() !='keluar':
        data=komm.recv(1024)
        if data.lower()=='keluar':
            komm.send('siap!!')
            s.close
            break
        if kamus.has_key(data):
            komm.send(kamus[data])
        else :
            komm.send('Maaf, perintah tidak dimengerti')
```

#### 2. Program pada sisi Client :

```
10K1client.py - C:\Python27\Tugas\10K1client.py (2.7.14)
File Edit Format Run Options Window Help
#Nama : Sherly Maycana Puspita Anwar
#NIM : L200190211
#Kegiatan 1_Client

import socket
hostname='localhost'
pesan=''
s=socket.socket(socket.AF_INET, socket.SOCK_STREAM)
s.connect((hostname, 50002))
print"Program Komunikasi tentang Data Diri"
while pesan.lower() !='keluar':
    pesan=raw_input('Perintah: ')
    s.send(pesan)
    if pesan.lower() !='keluar':
        response=s.recv(1024)
        print 'Jawab: ',response
    if pesan.lower() =='keluar':
        response=s.recv(1024)
        print 'Jawab: ',response
s.close
```

### 3. Screenshot terminal Server :



```
*Python 2.7.14 Shell
File Edit Shell Debug Options Window Help
Python 2.7.14 (v2.7.14:84471935ed, Sep 16 2017, 20:19:30) [MSC v.1500 32 bit (Intel)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Python27\Tugas\10K1ser.py =====
Server Penjawab Data Diri Siap!
|
```

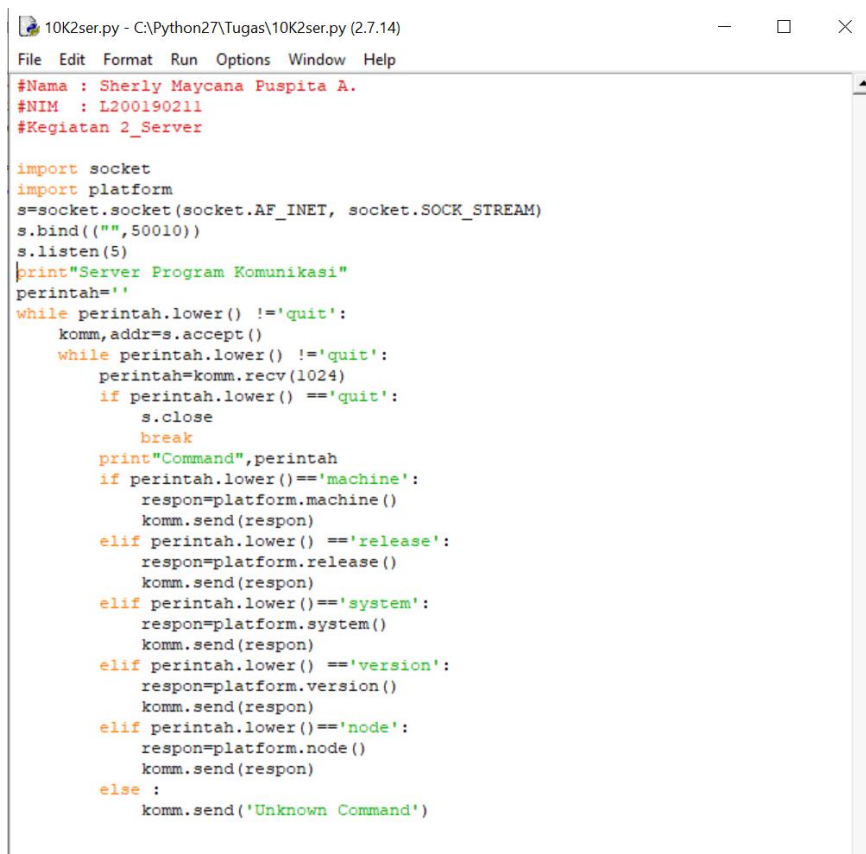
### 4. Screenshot terminal Client :



```
Python 2.7.14 Shell
File Edit Shell Debug Options Window Help
Python 2.7.14 (v2.7.14:84471935ed, Sep 16 2017, 20:19:30) [MSC v.1500 32 bit (Intel)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Python27\Tugas\10K1client.py =====
Program Komunikasi tentang Data Diri
Perintah: nama
Jawab: Sherly Maycana Puspita Anwar
Perintah: NIM
Jawab: L200190211
Perintah: alamat
Jawab: Maaf, perintah tidak dimengerti
Perintah: keluar
Jawab: siap!!
>>> |
```

## KEGIATAN 2

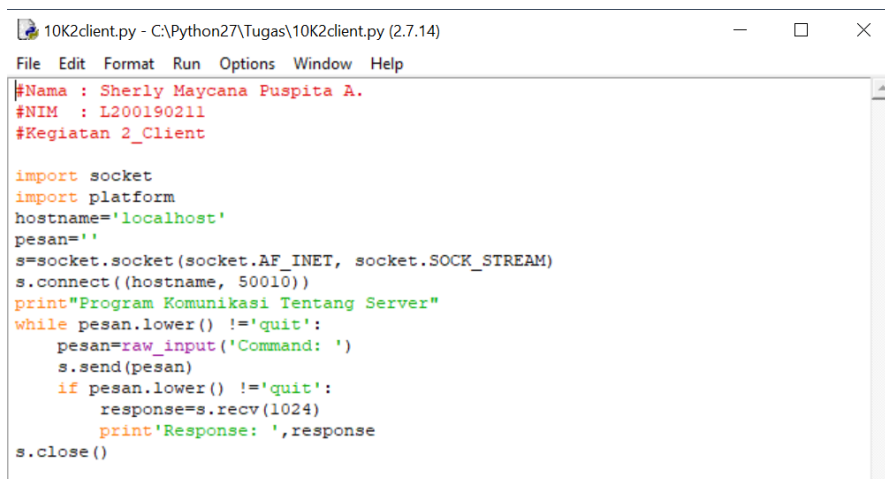
### 1. Program pada sisi Server :



```
10K2ser.py - C:\Python27\Tugas\10K2ser.py (2.7.14)
File Edit Format Run Options Window Help
#Nama : Sherly Maycana Puspita A.
#NIM : L200190211
#Kegiatan 2_Server

import socket
import platform
s=socket.socket(socket.AF_INET, socket.SOCK_STREAM)
s.bind(('',50010))
s.listen(5)
print"Server Program Komunikasi"
perintah=''
while perintah.lower() !='quit':
    komm,addr=s.accept()
    while perintah.lower() !='quit':
        perintah=komm.recv(1024)
        if perintah.lower() =='quit':
            s.close
            break
        print"Command",perintah
        if perintah.lower()=='machine':
            respon=platform.machine()
            komm.send(respon)
        elif perintah.lower() =='release':
            respon=platform.release()
            komm.send(respon)
        elif perintah.lower()=='system':
            respon=platform.system()
            komm.send(respon)
        elif perintah.lower() =='version':
            respon=platform.version()
            komm.send(respon)
        elif perintah.lower()=='node':
            respon=platform.node()
            komm.send(respon)
        else :
            komm.send('Unknown Command')
```

## 2. Program pada sisi Client :



```
10K2client.py - C:\Python27\Tugas\10K2client.py (2.7.14)
File Edit Format Run Options Window Help
#Nama : Sherly Maycana Puspita A.
#NIM : L200190211
#Kegiatan 2_Client

import socket
import platform
hostname='localhost'
pesan=''
s=socket.socket(socket.AF_INET, socket.SOCK_STREAM)
s.connect((hostname, 50010))
print"Program Komunikasi Tentang Server"
while pesan.lower() !='quit':
    pesan=raw_input('Command: ')
    s.send(pesan)
    if pesan.lower() !='quit':
        response=s.recv(1024)
        print'Response: ',response
s.close()
```

## 3. Screenshot terminal Client :



```
Python 2.7.14 Shell
File Edit Shell Debug Options Window Help
Python 2.7.14 (v2.7.14:84471935ed, Sep 16 2017, 20:19:30) [MSC v.1500 32 bit (Intel)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Python27\Tugas\10K2client.py =====
Program Komunikasi Tentang Server
Command: machine
Response: AMD64
Command: system
Response: Windows
Command: release
Response: 10
Command: version
Response: 10.0.18362
Command: node
Response: DESKTOP-2HPCOVH
Command: password
Response: Unknown Command
Command: quit
>>> |
```

## KEGIATAN 3

### 1. Program pada sisi Server :

```
10K3ser.py - C:\Python27\Tugas\10K3ser.py (2.7.14)
File Edit Format Run Options Window Help

#Nama : Sherly Maycana Puspita Anwar
#NIM : L200190211
#Kegiatan 3_Server

import socket
s=socket.socket(socket.AF_INET, socket.SOCK_STREAM)
s.bind(("",50015))
s.listen(5)
print "Server Menghitung Luas Bangun Geometri Segitiga"
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(0.5*a*t)
            response="Luas Segitiga dengan alas {} dan tinggi {} adalah {}".format
            komm.send(response)
        else:
            komm.send('Pesan tidak diketahui')
```

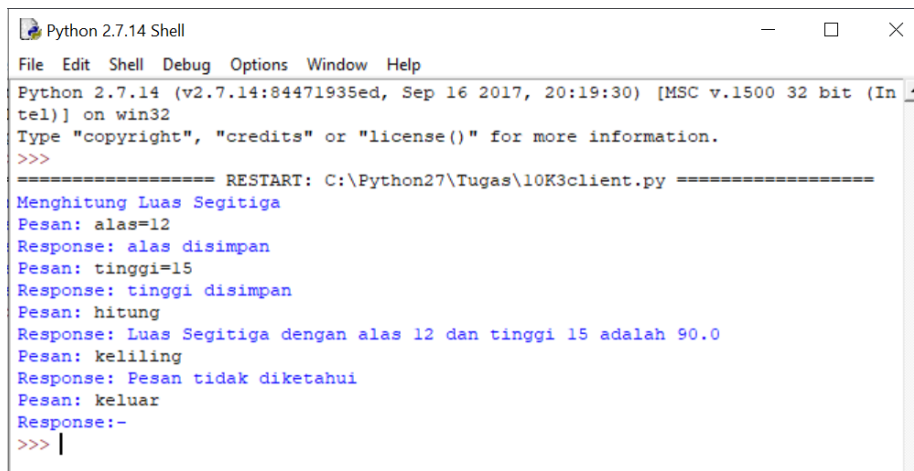
### 2. Program sisi Client :

```
10K3client.py - C:\Python27\Tugas\10K3client.py (2.7.14)
File Edit Format Run Options Window Help

#Nama : Sherly Maycana Puspita Anwar
#NIM : L200190211
#Kegiatan 3_Client

import socket
hostname ='localhost'
pesan=''
s=socket.socket(socket.AF_INET, socket.SOCK_STREAM)
s.connect((hostname, 50015))
print "Menghitung Luas Segitiga"
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
```

### 3. Screenshot terminal Client :



```
Python 2.7.14 Shell
File Edit Shell Debug Options Window Help
Python 2.7.14 (v2.7.14:84471935ed, Sep 16 2017, 20:19:30) [MSC v.1500 32 bit (Intel)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Python27\Tugas\l0K3client.py =====
Menghitung Luas Segitiga
Pesan: alas=12
Response: alas disimpan
Pesan: tinggi=15
Response: tinggi disimpan
Pesan: hitung
Response: Luas Segitiga dengan alas 12 dan tinggi 15 adalah 90.0
Pesan: keliling
Response: Pesan tidak diketahui
Pesan: keluar
Response:-
>>> |
```