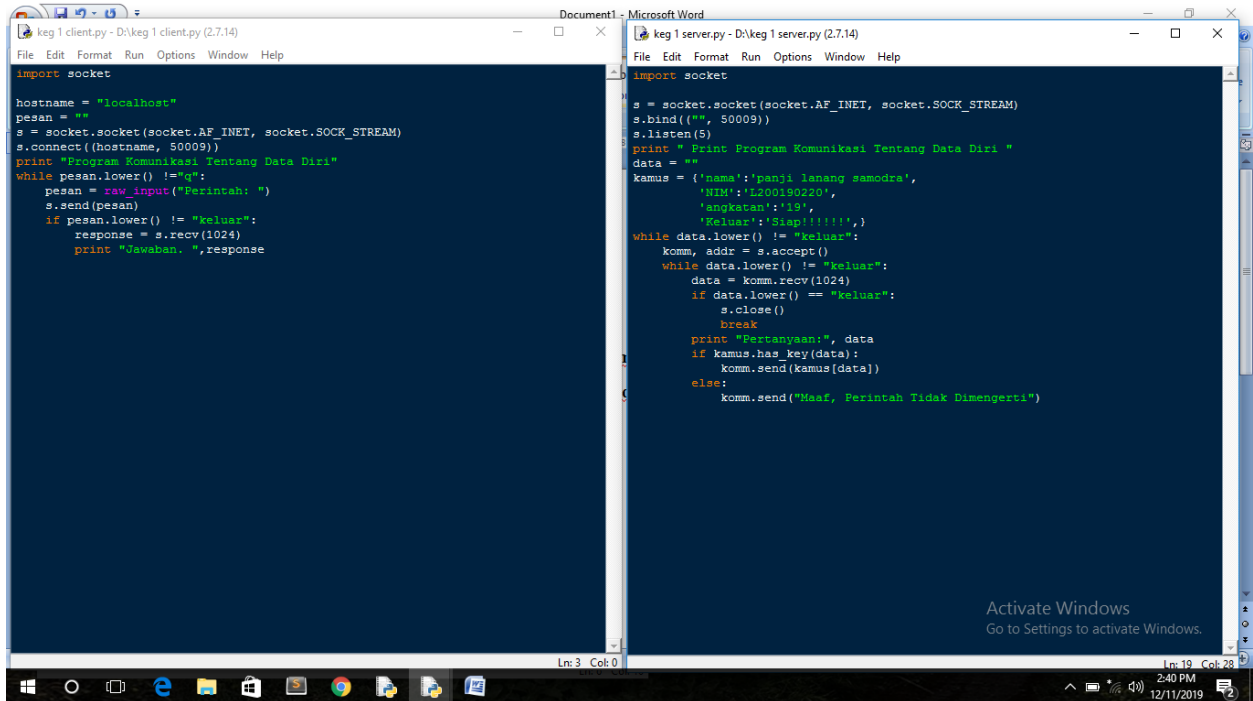


Nama : Panji Lanang Samodra  
NIM : L200190220

## Praktikum Algoritma dan Pemrograman Modul 10

### kegiatan 1. Data diri dari server



The screenshot shows two side-by-side Python IDE windows. The left window, titled 'keg 1 client.py - D:\keg 1 client.py (2.7.14)', contains the following code:

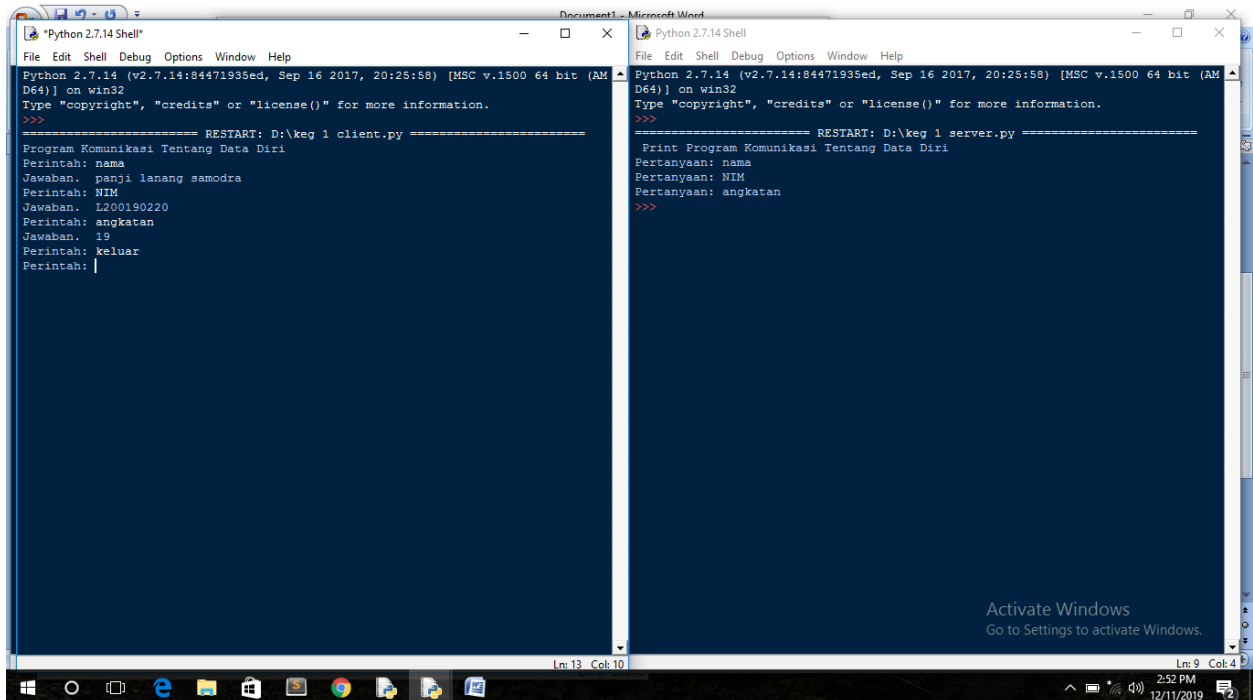
```
import socket

hostname = "localhost"
pesan = ""
s = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
s.connect((hostname, 50009))
print "Program Komunikasi Tentang Data Diri"
while pesan.lower() != "q":
    pesan = raw_input("Perintah: ")
    s.send(pesan)
    if pesan.lower() != "keluar":
        response = s.recv(1024)
        print "Jawaban. ", response
```

The right window, titled 'keg 1 server.py - D:\keg 1 server.py (2.7.14)', contains the following code:

```
import socket

s = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
s.bind(('', 50009))
s.listen(5)
print "Print Program Komunikasi Tentang Data Diri"
data = ""
kamus = {'nama': 'panji lanang samodra',
         'NIM': 'L200190220',
         'angkatan': '19',
         'keluar': 'Siap!!!!!!'}
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("Maaf, Perintah Tidak Dimengerti")
```



The screenshot shows two side-by-side Python 2.7.14 Shell windows. The left window, titled 'Python 2.7.14 Shell', shows the execution of the client program:

```
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: D:\keg 1 client.py =====
Program Komunikasi Tentang Data Diri
Perintah: nama
Jawaban. panji lanang samodra
Perintah: NIM
Jawaban. L200190220
Perintah: angkatan
Jawaban. 19
Perintah: keluar
Perintah: |
```

The right window, titled 'Python 2.7.14 Shell', shows the execution of the server program:

```
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: D:\keg 1 server.py =====
Print Program Komunikasi Tentang Data Diri
Pertanyaan: nama
Pertanyaan: NIM
Pertanyaan: angkatan
>>>
```



## Kegiatan 2. Informasi tentang server

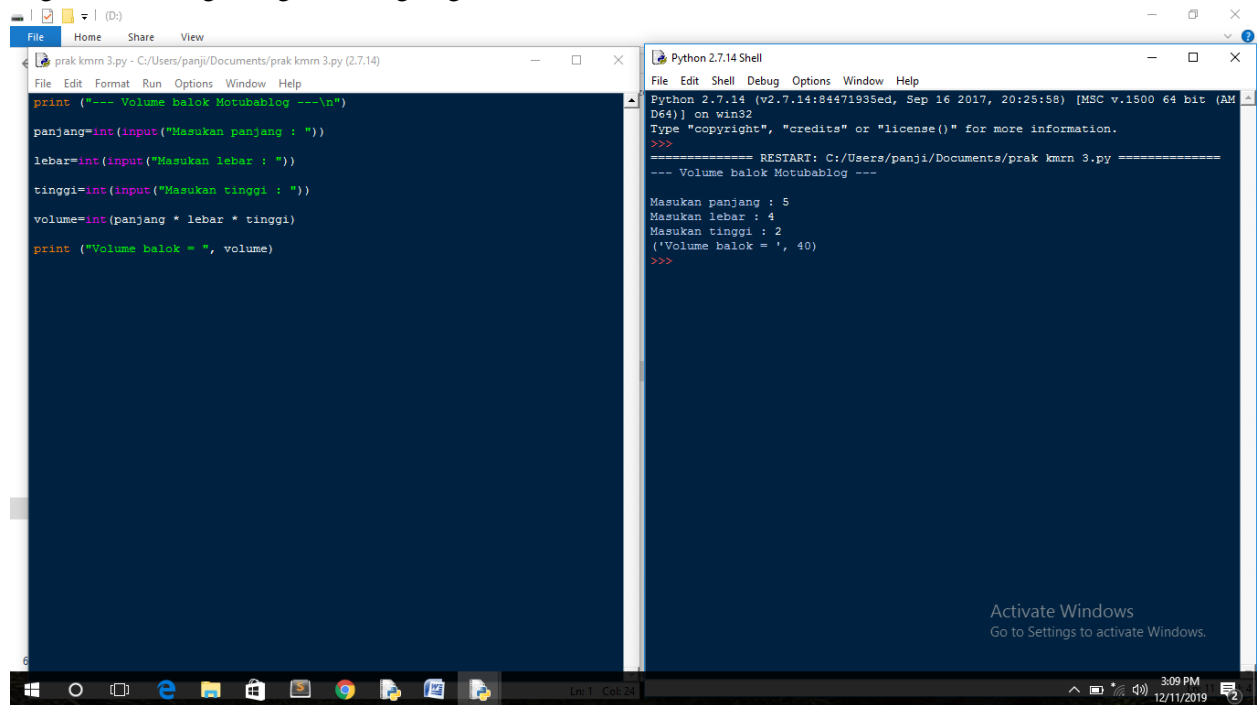
```
keg 2 client.py - D:\keg 2 client.py (2.7.14)
File Edit Format Run Options Window Help
import socket
hostname= "localhost"
pesan=""
s = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
s.connect((hostname,50006))
print "Program Komunikasi Tentang Server"
while pesan.lower()!="quit":
    pesan = 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()

keg 2 server.py - D:\keg 2 server.py (2.7.14)
File Edit Format Run Options Window Help
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() == "version":
            respon = platform.version()
            komm.send(respon)
        elif data.lower() == "node":
            respon = platform.node()
            komm.send(respon)
        else:
            komm.send("unknown command")

Python 2.7.14 Shell
File Edit Shell Debug Options Window Help
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: D:\keg 2 client.py =====
command: machine
response: AMD64
command: release
response: 10
command: version
response: 10.0.14393
command: node
response: DESKTOP-CHSU3RS
command: quit
>>>

Python 2.7.14 Shell
File Edit Shell Debug Options Window Help
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: D:\keg 2 server.py =====
command: machine
command: release
command: version
command: node
command: quit
>>>
```

### Kegiatan 3. Menghitung luas bangun geometri



```
prak kmn 3.py - C:/Users/panji/Documents/prak kmn 3.py (2.7.14)
File Edit Format Run Options Window Help
print ("--- Volume balok Motubablog ---\n")
panjang=int(input("Masukan panjang : "))
lebar=int(input("Masukan lebar : "))
tinggi=int(input("Masukan tinggi : "))
volume=int(panjang * lebar * tinggi)
print ("Volume balok = ", volume)

Python 2.7.14 Shell
File Edit Shell Debug Options Window Help
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: C:/Users/panji/Documents/prak kmn 3.py =====
--- Volume balok Motubablog ---

Masukan panjang : 5
Masukan lebar : 4
Masukan tinggi : 2
('Volume balok = ', 40)
>>>
```

Activate Windows  
Go to Settings to activate Windows.