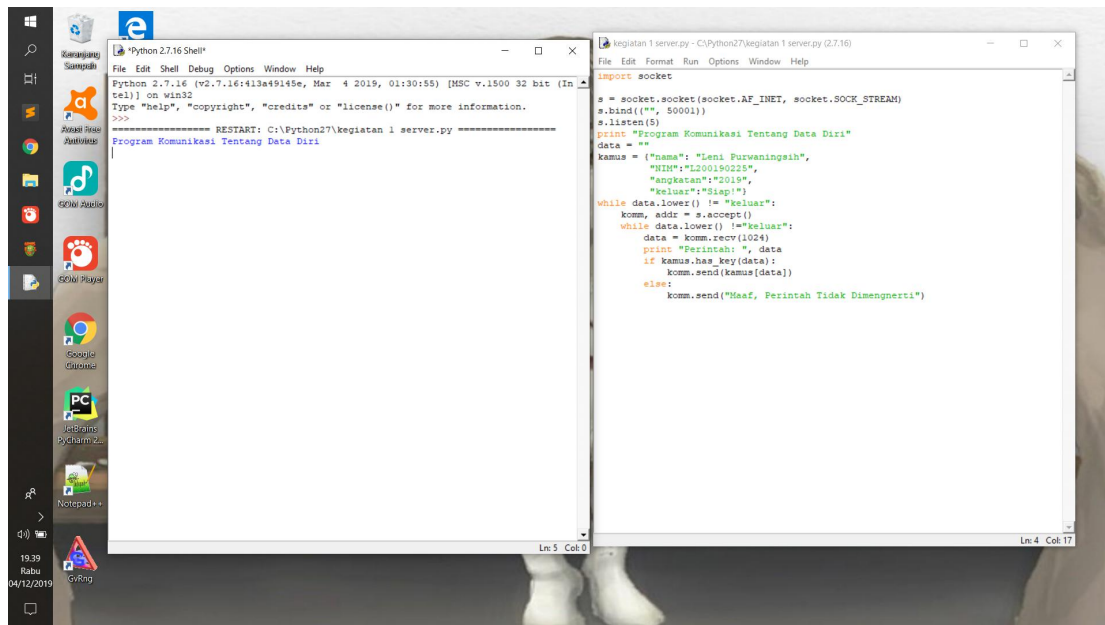


Nama: Leni Purwaningsih
NIM: L200190225

Kegiatan 1

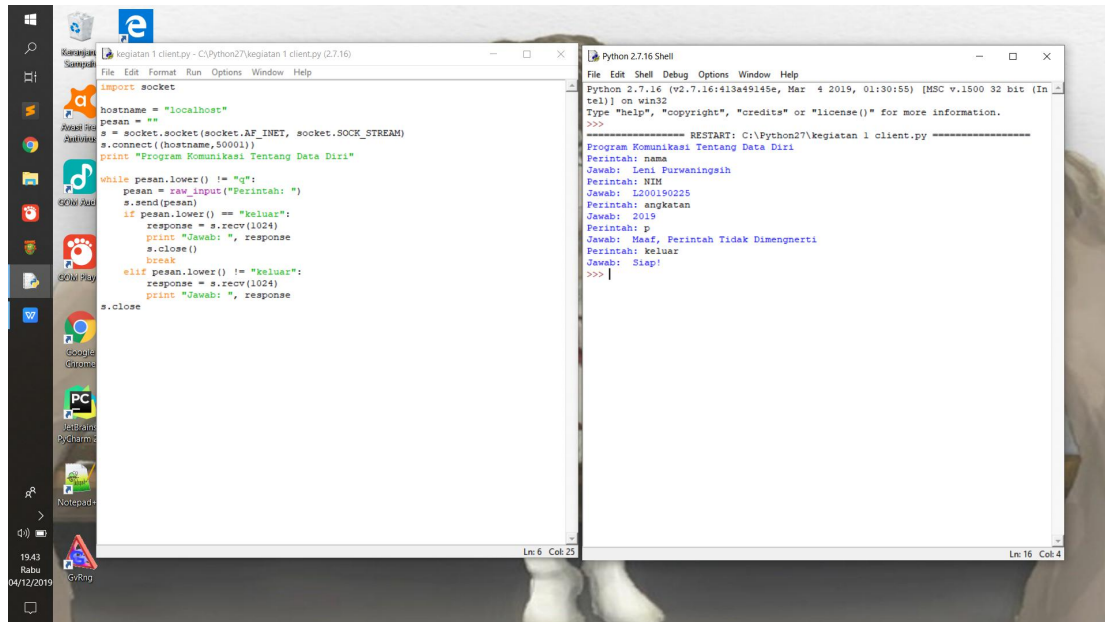
Server:



```
Python 2.7.16 Shell
File Edit Shell Debug Options Window Help
Python 2.7.16 (v2.7.16:413a49145e, Mar 4 2019, 01:30:55) [MSC v.1500 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Python27\kegiatan 1 server.py =====
Program Komunikasi Tentang Data Diri

kegiatan 1 server.py - C:\Python27\kegiatan 1 server.py (2.7.16)
File Edit Format Run Options Window Help
import socket
s = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
s.bind(('', 50001))
s.listen(5)
print "Program Komunikasi Tentang Data Diri"
data = ""
kamus = {"name": "Leni Purwaningsih",
        "NIM": "L200190225",
        "angkatan": "2019",
        "keluar": "Siap!"}
while data.lower() != "keluar":
    koms, addr = s.accept()
    while data.lower() != "keluar":
        data = koms.recv(1024)
        print "Perintah: ", data
        if kamus.has_key(data):
            koms.send(kamus[data])
        else:
            koms.send("Maaf, Perintah Tidak Dimengerti")
```

Client:

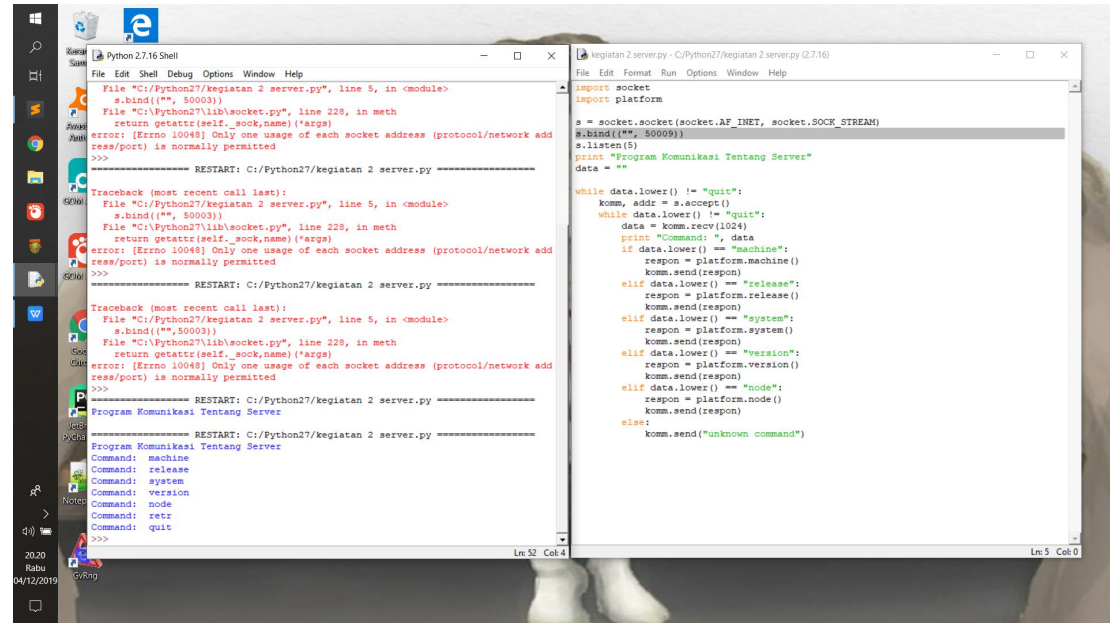


```
kegiatan 1 client.py - C:\Python27\kegiatan 1 client.py (2.7.16)
File Edit Format Run Options Window Help
import socket
hostname = "localhost"
pesan = ""
s = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
s.connect((hostname, 50001))
print "Program Komunikasi Tentang Data Diri"
while pesan.lower() != "q":
    pesan = raw_input("Perintah: ")
    s.send(pesan)
    if pesan.lower() == "keluar":
        response = s.recv(1024)
        print "Jawab: ", response
        s.close()
    elif pesan.lower() != "keluar":
        response = s.recv(1024)
        print "Jawab: ", response
    s.close()

Python 2.7.16 Shell
File Edit Shell Debug Options Window Help
Python 2.7.16 (v2.7.16:413a49145e, Mar 4 2019, 01:30:55) [MSC v.1500 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Python27\kegiatan 1 client.py =====
Program Komunikasi Tentang Data Diri
Perintah: name
Jawab: Leni Purwaningsih
Perintah: NIM
Jawab: L200190225
Perintah: angkatan
Jawab: 2019
Perintah: p
Jawab: Maaf, Perintah Tidak Dimengerti
Perintah: keluar
Jawab: Siap!
>>>
```

Kegiatan 2

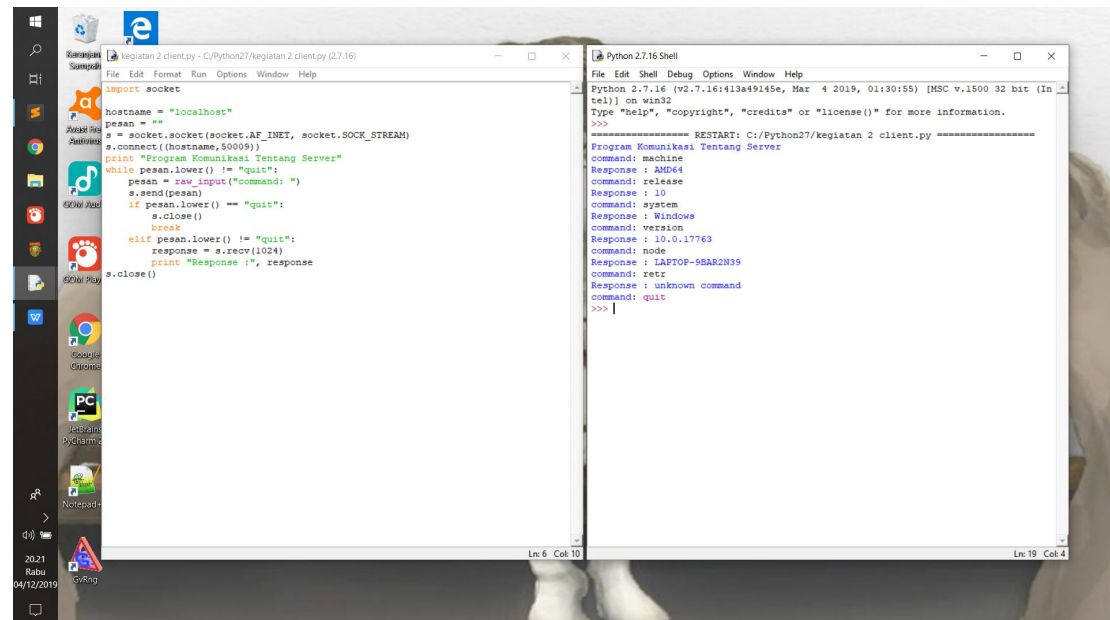
Server



```
File "C:/Python27/kegiatan 2 server.py", line 5, in <module>
s.bind(("", 50003))
File "C:/Python27/lib/socket.py", line 228, in meth
return getaddr(self._sock.name)(*args)
error: [Errno 10048] Only one usage of each socket address (protocol/network add
ress/port) is normally permitted
>>>
===== RESTART: C:/Python27/kegiatan 2 server.py =====
Traceback (most recent call last):
File "C:/Python27/kegiatan 2 server.py", line 5, in <module>
s.bind(("", 50003))
File "C:/Python27/lib/socket.py", line 228, in meth
return getaddr(self._sock.name)(*args)
error: [Errno 10048] Only one usage of each socket address (protocol/network add
ress/port) is normally permitted
>>>
===== RESTART: C:/Python27/kegiatan 2 server.py =====
Traceback (most recent call last):
File "C:/Python27/kegiatan 2 server.py", line 5, in <module>
s.bind(("", 50003))
File "C:/Python27/lib/socket.py", line 228, in meth
return getaddr(self._sock.name)(*args)
error: [Errno 10048] Only one usage of each socket address (protocol/network add
ress/port) is normally permitted
>>>
===== RESTART: C:/Python27/kegiatan 2 server.py =====
Program Komunikasi Tentang Server
===== RESTART: C:/Python27/kegiatan 2 server.py =====
Program Komunikasi Tentang Server
Command: machine
Command: release
Command: system
Command: version
Command: node
Command: retr
Command: quit
>>>
```

```
kegiatan 2 server.py - C:/Python27/kegiatan 2 server.py (2.7.16)
File Edit Format Run Options Window Help
import socket
import platform
s = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
s.bind(("", 50009))
s.listen(5)
print "Program Komunikasi Tentang Server"
data = ""
while data.lower() != "quit":
    kmm, addr = s.accept()
    while data.lower() != "quit":
        data = kmm.recv(1024)
        print "Command: ", data
        if data.lower() == "machine":
            respon = platform.machine()
            kmm.send(respon)
        elif data.lower() == "release":
            respon = platform.release()
            kmm.send(respon)
        elif data.lower() == "system":
            respon = platform.system()
            kmm.send(respon)
        elif data.lower() == "version":
            respon = platform.version()
            kmm.send(respon)
        elif data.lower() == "node":
            respon = platform.node()
            kmm.send(respon)
        else:
            kmm.send("unknown command")
```

Client

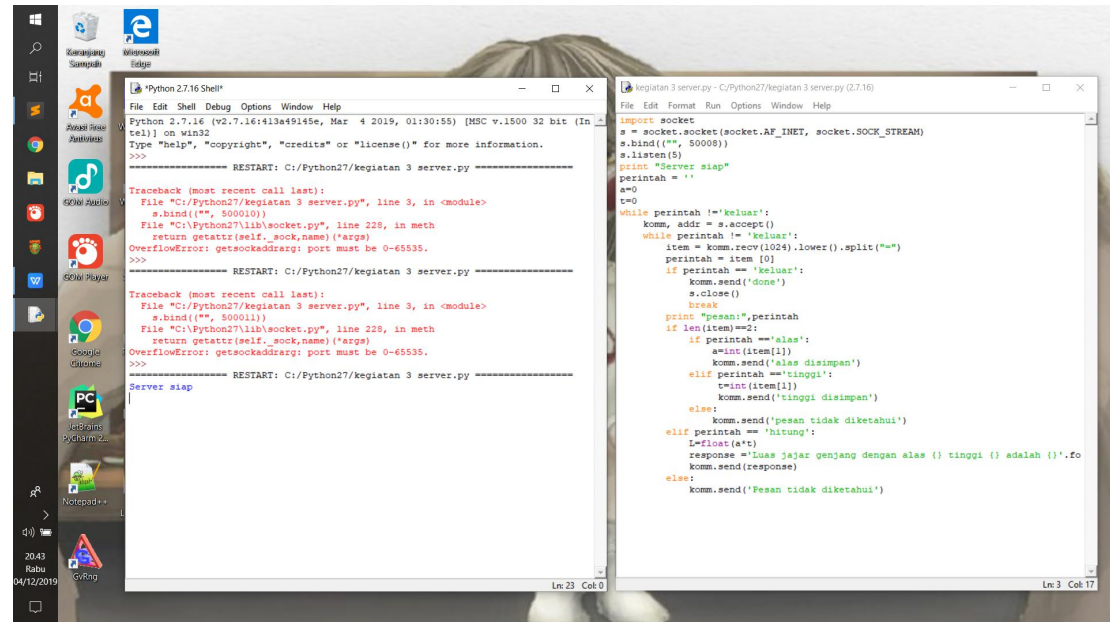


```
kegiatan 2 client.py - C:/Python27/kegiatan 2 client.py (2.7.16)
File Edit Format Run Options Window Help
import socket
hostname = "localhost"
pesan = ""
s = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
s.connect((hostname, 50009))
print "Program Komunikasi Tentang Server"
while pesan.lower() != "quit":
    pesan = raw_input("Command: ")
    s.send(pesan)
    if pesan.lower() == "quit":
        break
    elif pesan.lower() != "quit":
        response = s.recv(1024)
        print "Response :", response
s.close()
```

```
Python 2.7.16 Shell
Python 2.7.16 (v2.7.16:413a49145e, Mar 4 2019, 01:30:55) [MSC v.1500 32 bit (In
tel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Python27/kegiatan 2 client.py =====
Program Komunikasi Tentang Server
Command: machine
Response: AMD64
Command: release
Response: 10
Command: system
Response: Windows
Command: version
Response: 10.0.17763
Command: node
Response: LAPTOP-9BAR2H39
Command: retr
Response: unknown command
Command: quit
>>>
```

Kegiatan 3

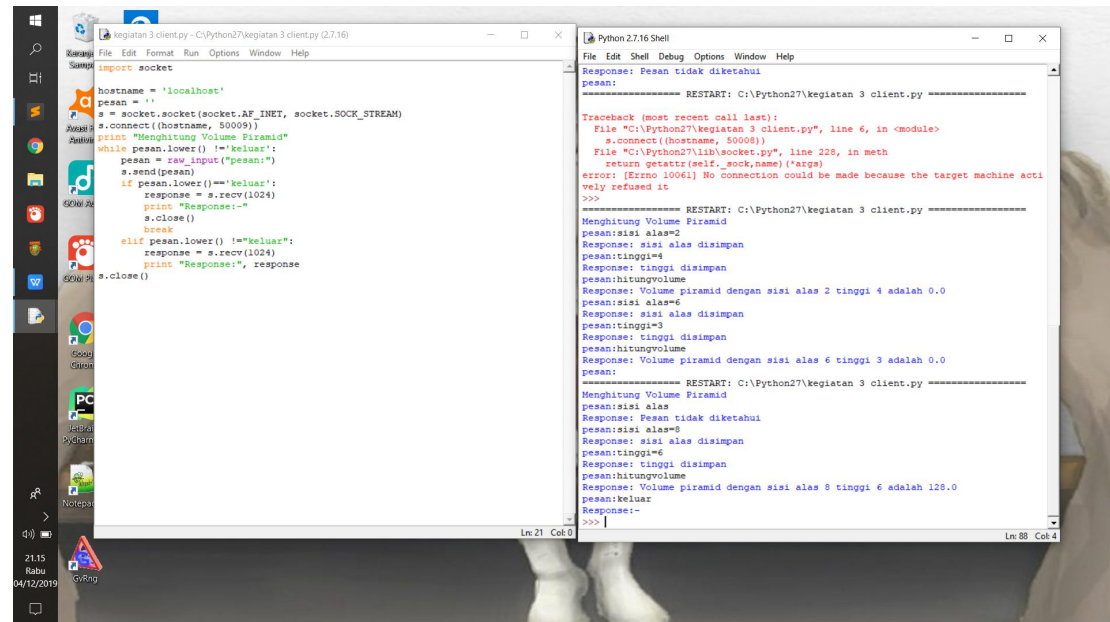
Server



```
Python 2.7.16 Shell
File Edit Shell Debug Options Window Help
Python 2.7.16 (v2.7.16:413a49145e, Mar 4 2019, 01:30:55) [MSC v.1500 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Python27\kegiatan 3 server.py =====
Traceback (most recent call last):
  File "C:\Python27\kegiatan 3 server.py", line 3, in <module>
    s.bind(("", 50008))
  File "C:\Python27\lib\socket.py", line 228, in meth
    return getaddrinfo(*args)
OverflowError: getsockaddrarg: port must be 0-65535.
>>>
===== RESTART: C:\Python27\kegiatan 3 server.py =====
Traceback (most recent call last):
  File "C:\Python27\kegiatan 3 server.py", line 3, in <module>
    s.bind(("", 50008))
  File "C:\Python27\lib\socket.py", line 228, in meth
    return getaddrinfo(*args)
OverflowError: getsockaddrarg: port must be 0-65535.
>>>
===== RESTART: C:\Python27\kegiatan 3 server.py =====
Server siap
Ln: 23 Col: 0
```

```
kegiatan 3 server.py - C:\Python27\kegiatan 3 server.py (2.7.16)
File Edit Format Run Options Window Help
import socket
s = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
s.bind(("", 50008))
s.listen(5)
print "Server 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 {} tinggi {} adalah {}'.format(a, t, L)
            komm.send(response)
        else:
            komm.send('Pesan tidak diketahui')
Ln: 3 Col: 17
```

Client:



```
kegiatan 3 client.py - C:\Python27\kegiatan 3 client.py (2.7.16)
File Edit Format Run Options Window Help
import socket
hostname = 'localhost'
pesan = ""
s = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
s.connect((hostname, 50008))
print "Menghitung Volume Piramid"
while pesan.lower() != 'keluar':
    pesan = raw_input("pesan:")
    s.send(pesan)
    if pesan.lower() == 'keluar':
        response = s.recv(1024)
        print "Response: " + response
        s.close()
        break
    elif pesan.lower() != 'keluar':
        response = s.recv(1024)
        print "Response: ", response
        s.close()
Ln: 21 Col: 0
```

```
Python 2.7.16 Shell
File Edit Shell Debug Options Window Help
Response: Pesan tidak diketahui
pesan:
===== RESTART: C:\Python27\kegiatan 3 client.py =====
Traceback (most recent call last):
  File "C:\Python27\kegiatan 3 client.py", line 6, in <module>
    s.connect((hostname, 50008))
  File "C:\Python27\lib\socket.py", line 228, in meth
    return getaddrinfo(*args)
error: [Errno 10061] No connection could be made because the target machine actively refused it
>>>
===== RESTART: C:\Python27\kegiatan 3 client.py =====
Menghitung Volume Piramid
pesan: sisi alas 2
Response: sisi alas disimpan
pesan: tinggi 4
Response: tinggi disimpan
pesan: hitung volume
Response: Volume piramid dengan sisi alas 2 tinggi 4 adalah 0.0
pesan: sisi alas 6
Response: sisi alas disimpan
pesan: tinggi 3
Response: tinggi disimpan
pesan: hitung volume
Response: Volume piramid dengan sisi alas 6 tinggi 3 adalah 0.0
pesan:
===== RESTART: C:\Python27\kegiatan 3 client.py =====
Menghitung Volume Piramid
pesan: sisi alas
Response: Pesan tidak diketahui
pesan: sisi alas 8
Response: sisi alas disimpan
pesan: tinggi 6
Response: tinggi disimpan
pesan: hitung volume
Response: Volume piramid dengan sisi alas 8 tinggi 6 adalah 128.0
pesan: keluar
Response:
>>>
Ln: 88 Col: 4
```