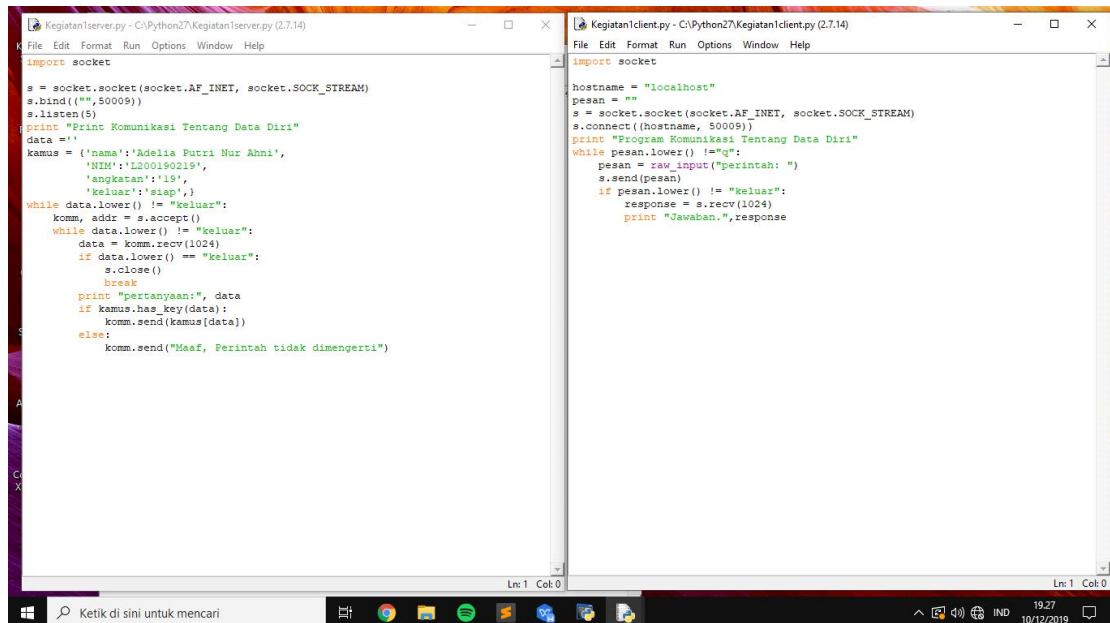


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## Praktikum Algoritma dan Pemrograman Modul 10

### Kegiatan 1



The screenshot shows two side-by-side Python IDE windows. The left window, titled 'Kegiatan1server.py', contains the server code. The right window, titled 'Kegiatan1client.py', contains the client code. Both windows show the same code structure with imports, socket creation, binding, and a while loop for handling communication.

```
import socket

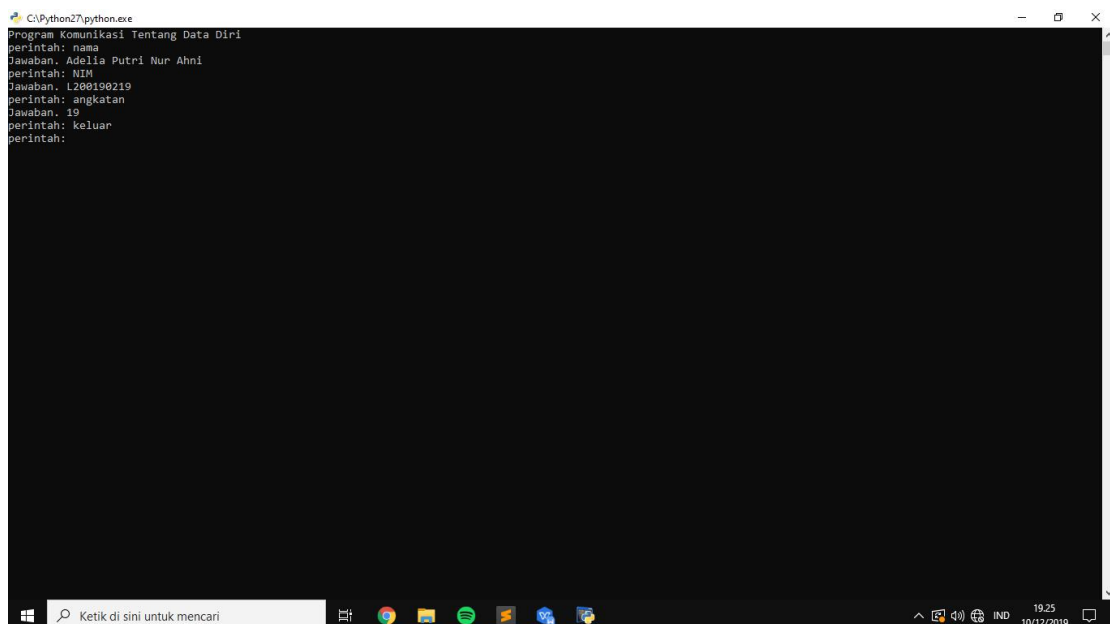
s = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
s.bind(('', 50009))
s.listen(5)

print "Print Komunikasi Tentang Data Diri"
data = ''
kamus = {'nama': 'Adelia Putri Nur Ahni',
        'NIM': 'L200190219',
        'angkatan': '19',
        'keluar': 'siap',}

while data.lower() != "keluar":
    kamm, addr = s.accept()
    while data.lower() != "keluar":
        data = kamm.recv(1024)
        if data.lower() == "keluar":
            s.close()
            break
        print "pertanyaan:", data
        if kamus.has_key(data):
            kamm.send(kamus[data])
        else:
            kamm.send("Maaf, Perintah tidak dimengerti")
```

```
import socket

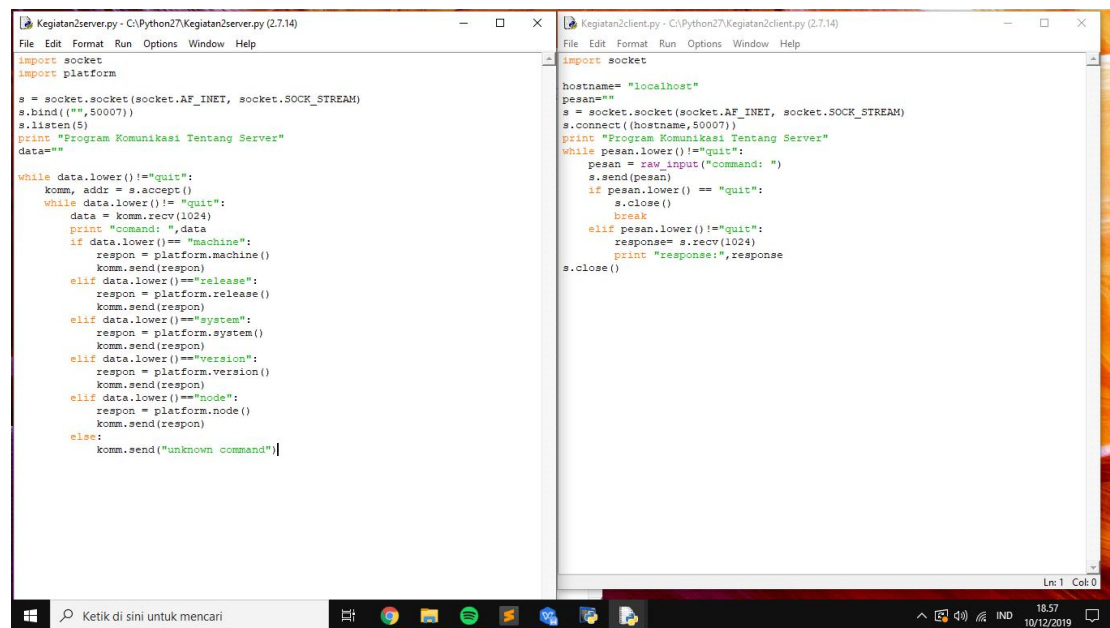
hostname = "localhost"
pesan = ''
s = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
s.connect((hostname, 50009))
print "Program Komunikasi Tentang Data Diri"
while pesan.lower() != "q":
    pesan = raw_input("perintah: ")
    s.send(pesan)
    if pesan.lower() != "keluar":
        response = s.recv(1024)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



The screenshot shows a Python terminal window titled 'C:\Python27\python.exe'. It displays the output of the client program, showing the user's input and the server's response for each command.

```
Program Komunikasi Tentang Data Diri
perintah: nama
Jawaban. Adelia Putri Nur Ahni
perintah: NIM
Jawaban. L200190219
perintah: angkatan
Jawaban. 19
perintah: keluar
perintah:
```

## Kegiatan 2



The screenshot shows two side-by-side Python IDE windows. The left window, titled 'Kegiatan2server.py', contains the server code. The right window, titled 'Kegiatan2client.py', contains the client code. Both windows show the same menu bar (File, Edit, Format, Run, Options, Window, Help) and a status bar at the bottom.

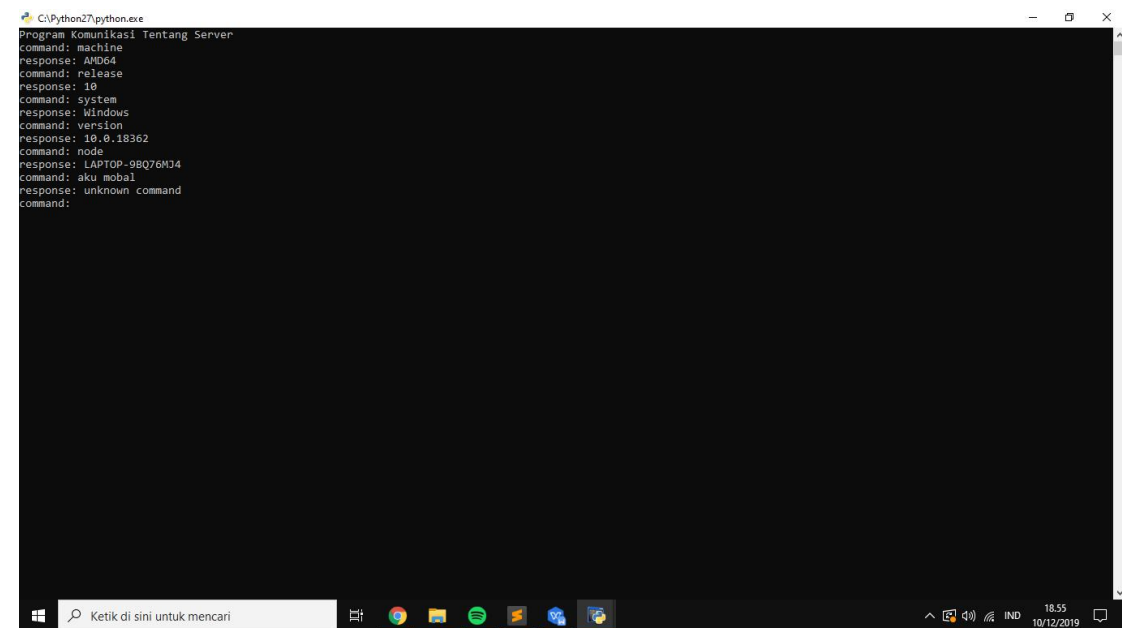
```
File Edit Format Run Options Window Help
import socket
import platform

s = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
s.bind(("", 50007))
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("unknown command")
```

```
File Edit Format Run Options Window Help
import socket

hostname="localhost"
pesan=""
s = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
s.connect((hostname, 50007))
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()
```



The screenshot shows a terminal window titled 'C:\Python27\python.exe'. It displays the output of the server program, showing the received commands and the corresponding responses from the client.

```
C:\Python27\python.exe
Program Komunikasi Tentang Server
command: machine
response: AMD64
command: release
response: 10
command: system
response: Windows
command: version
response: 10.0.18362
command: node
response: LAPTOP-98Q76MJ4
command: aku mobil
response: unknown command
command:
```

## Kegiatan 3

```
Kegiatan3.py - C:\Python27\Kegiatan3.py (2.7.14)
File Edit Format Run Options Window Help

# -*- coding: utf-8 -*-
luasalas = int(raw_input("Masukan Luas alas Prisma = "))
luasasel = int(raw_input("Masukan Luas selimut prisma = "))
luasprisma = (2 * luasalas) + luasasel
tinggi = int(raw_input("Masukan tinggi prisma = "))
print "Luas Prisma anda adalah %.2f cm2"%luasprisma
volumeprisma = luasalas * tinggi
print "Volume prisma anda adalah %.2f cm3"%volumeprisma
```

```
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:\Kegiatanclient.txt =====
Program Komunikasi Tentang Data Diri
perintah: nama

Traceback (most recent call last):
  File "D:\Kegiatanclient.txt", line 12, in <module>
    response = s.recv(1024)
error: [Errno 10053] An established connection was aborted by the software in your host machine
>>>
===== RESTART: D:\Kegiatan1 server.txt =====
Print Komunikasi Tentang Data Diri

===== RESTART: C:\Python27\Kegiatan 3.py =====
Masukan Luas alas Prisma = 12
Masukan Luas selimut prisma = 12
Masukan tinggi prisma = 12
Luas Prisma anda adalah 36.00 cm2
Volume prisma anda adalah 144.00 cm3
>>>
===== RESTART: D:\Kegiatanclient.txt =====

Traceback (most recent call last):
  File "D:\Kegiatanclient.txt", line 6, in <module>
    s.connect((hostname, 50004))
  File "C:\Python27\lib\socket.py", line 228, in meth
    return getaddrinfo(self._sock.name)(*args)
error: [Errno 10061] No connection could be made because the target machine actively refused it
>>>
===== RESTART: D:\Kegiatanclient.txt =====

Traceback (most recent call last):
  File "D:\Kegiatanclient.txt", line 6, in <module>
    s.connect((hostname, 50005))
  File "C:\Python27\lib\socket.py", line 228, in meth
    return getaddrinfo(self._sock.name)(*args)
error: [Errno 10061] No connection could be made because the target machine actively refused it
>>>
===== RESTART: D:\Kegiatanclient.txt =====
```