

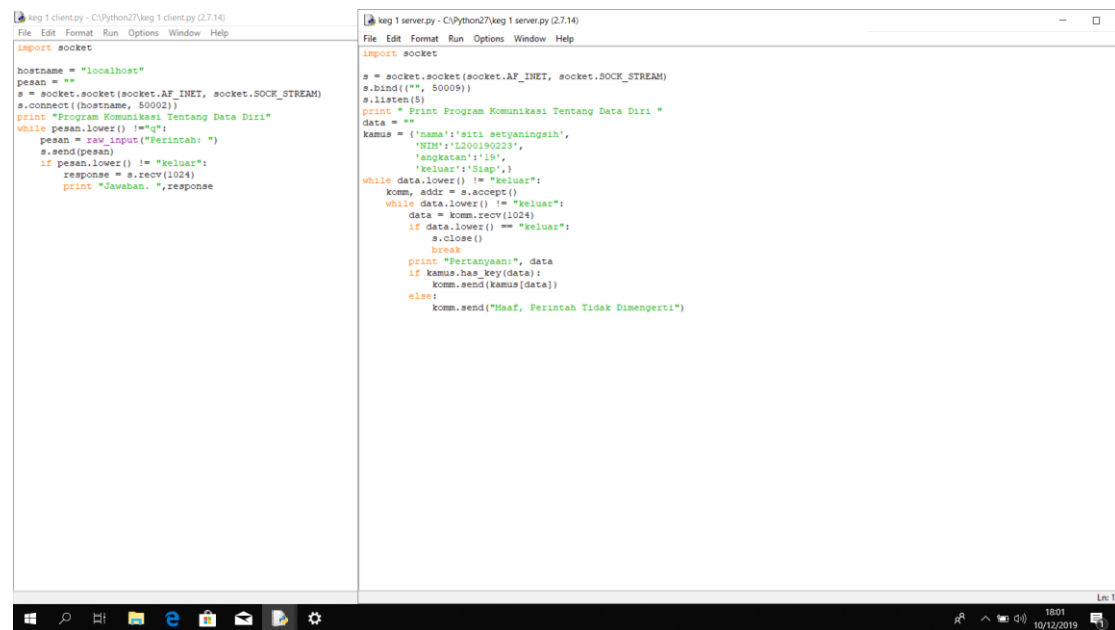
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## PRAKTIKUM ALGORITMA DAN PEMROGAMAN

### MODUL 10

1.



The image shows two side-by-side windows of a Python IDE (Python 2.7.14). The left window is titled 'keg 1 client.py' and contains the following code:

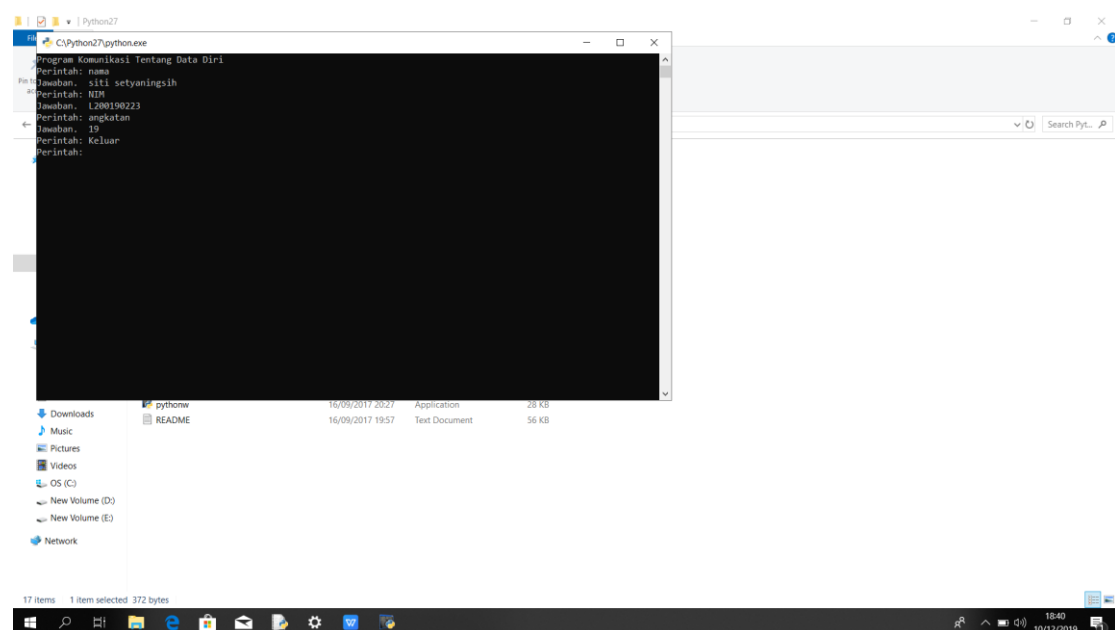
```
import socket

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() != "q":
    pesan = raw_input("Perintah: ")
    s.send(pesan)
    if pesan.lower() != "keluar":
        response = s.recv(1024)
        print "Jawaban: ", response
```

The right window is titled 'keg 1 server.py' and 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': 'siti setyaningsih',
        'NIM': 'L200190223',
        'angkatan': '19',
        'keluar': 'Slap'}
while data.lower() != "keluar":
    kconn, addr = s.accept()
    while data.lower() != "keluar":
        data = kconn.recv(1024)
        if data.lower() == "keluar":
            s.close()
            break
    print "Pertanyaan:", data
    if kamus.has_key(data):
        kconn.send(kamus[data])
    else:
        kconn.send("Maaf, Perintah Tidak Dimengerti")
```



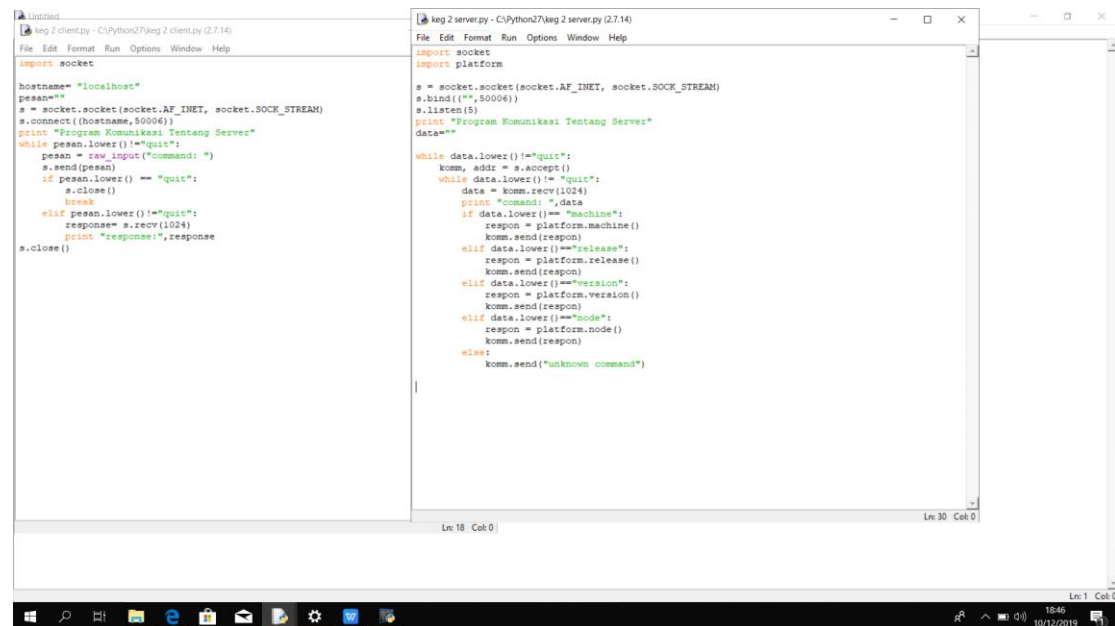
The image shows a single window of a Python IDE (Python 2.7.14) titled 'C:\Python27\python.exe'. The window displays the output of the program, showing the communication between the client and the server. The output is as follows:

```
Program Komunikasi Tentang Data Diri
Perintah: nama
Jawaban: siti setyaningsih
Perintah: NIM
Jawaban: L200190223
Perintah: angkatan
Jawaban: 19
Perintah: Keluar
Perintah:
```

The window also shows a file explorer on the left side, displaying the contents of the 'Downloads' folder, including a file named 'python' and a file named 'README'.



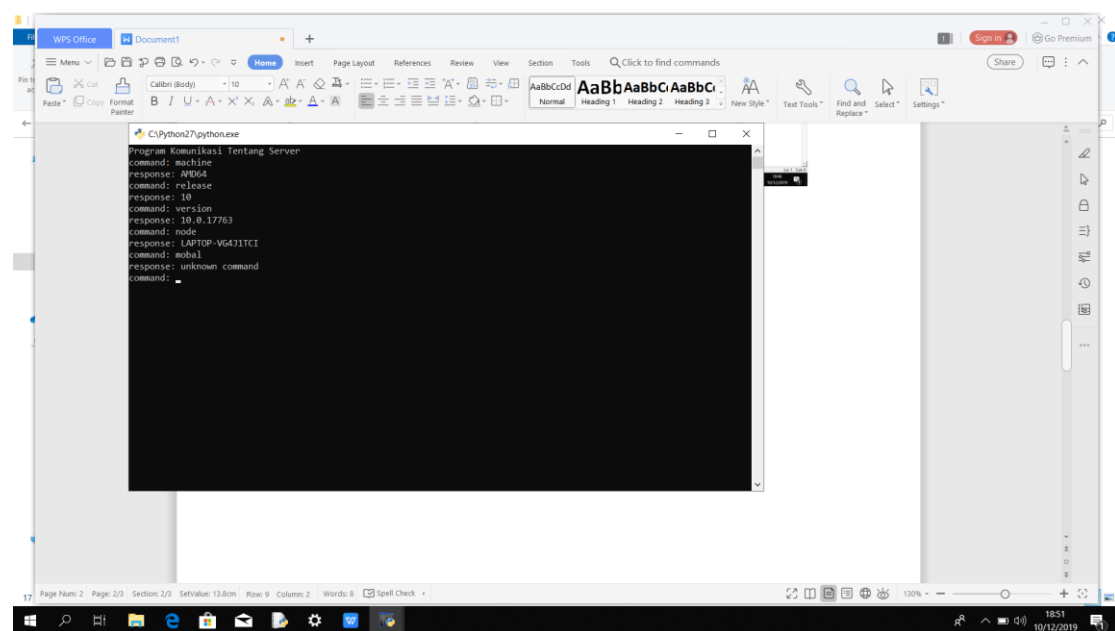
2.



The image shows two Notepad++ windows side-by-side. The left window, titled 'keg 2 client.py - C:\Python27\keg 2 client.py (2.7.14)', contains a client script that connects to localhost:50064 and sends/receives data. The right window, titled 'keg 2 server.py - C:\Python27\keg 2 server.py (2.7.14)', contains a server script that listens on localhost:50064 and handles commands like 'machine', 'release', 'version', and 'node' using the 'platform' module. The status bars at the bottom of the windows show 'Ln: 18 Col: 0' and 'Ln: 30 Col: 0' respectively.

```
keg 2 client.py - C:\Python27\keg 2 client.py (2.7.14)
import socket
hostname= "localhost"
pesan=""
s = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
s.connect((hostname,50064))
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 - C:\Python27\keg 2 server.py (2.7.14)
import socket
import platform
s = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
s.bind(('',50064))
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")
```



3.

The image shows a screenshot of a Python IDE with two windows. The left window is titled 'Kegiatan 3.py - C:/Python27/Kegiatan 3.py (2.7.14)' and contains the following Python code:

```
print ("--- Luas & Volume Bola Motobablog ---\n")
jari=int(input("Masukan Jari-jari Bola : "))
phi=(22/7)
luas=int(4*phi*(jari*jari))
volume=int((4/3)*phi*(jari*jari*jari))
print ("Luas Bola = ", luas)
print ("Volume Bola = ", volume)
```

The right window is titled 'Python 2.7.14 Shell' and shows the output of the script after execution:

```
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:/Python27/Kegiatan 3.py =====
--- Luas & Volume Bola Motobablog ---
Masukan Jari-jari Bola : 3.14
('Luas Bola = ', 108)
('Volume Bola = ', 81)
>>>
```

The taskbar at the bottom shows the Windows Start button, a search icon, and several application icons including File Explorer, Internet Explorer, and the Python IDE. The system clock in the bottom right corner displays the time as 19:35 on 10/12/2019.