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Praktikum Alogaritma dan Pemrograman
Modul 10

Kegiatan 1. Data diri dari server

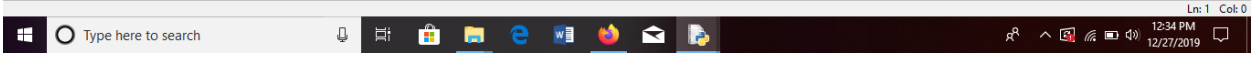
Progam sisi server dan client

servertcp.py - D:\Kegiatan 10\Kegiatan 1\servertcp.py (2.7.17)

File Edit Format Run Options Window Help

```
# nama berkas : servertcp.py
# TCP client : clienttcp.py
import socket
import platform
s = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
s.bind(("", 1001))
s.listen(3)
print "Server penjawab otomatis siap"
data = ""
kamus = {"nama":"Lugas Rofanian Arta Margianto",
         "NIM":"L200190228",
         "angkatan":"2019",
         "motto":"Syukuri Apa Yang Ada",
         "kuliah":"Universitas Muhammadiyah Surakarta"}
while data.lower() != "keluar":
    komm, addr=s.accept()
    while data.lower() !=" keluar":
        data = komm.recv(1024)
        if data.lower() == "keluar":
            komm.send("OK!!")
            s.close()
            print "Pertanyaan:", data
            break
        print "Pertanyaan:", data
        if kamus.has_key(data):
            komm.send(kamus[data])
        else:
            komm.send("Maaf perintah tidak ada")
s.close()
```

Ln: 1 Col: 0

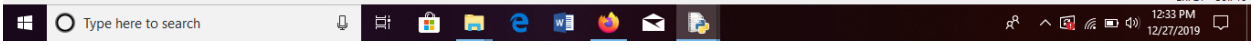


clienttcp.py - D:\Kegiatan 10\Kegiatan 1\clienttcp.py (2.7.17)

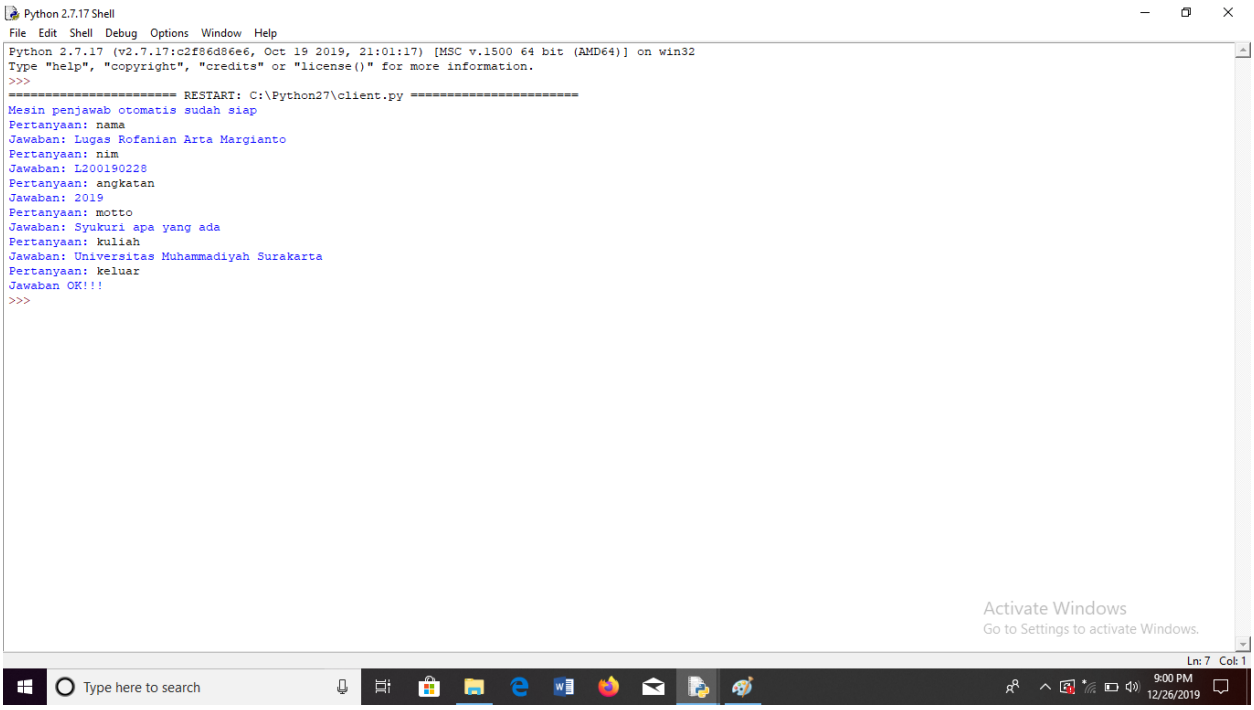
File Edit Format Run Options Window Help

```
# nama berkas : clienttcp.py
# TCP server : servertcp.py
import socket

hostname = "localhost"
pesan = ""
s = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
s.connect((hostname, 1001))
print "Mesin penjawab otomatis sudah siap"
while pesan.lower() != int:
    pesan = raw_input("Pertanyaan: ")
    s.send(pesan)
    if pesan.lower() != "keluar":
        response = s.recv(1024)
        print "Jawaban:", response
    elif pesan.lower() == "keluar":
        respone = s.recv(1024)
        print "Jawaban: OK!!!"
        break
s.close()
```

Ln: 21 Col: 18



Hasil terminal server dan client



Kegiatan 2. Informasi tentang server

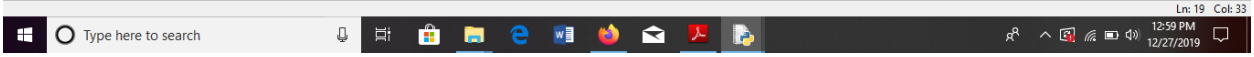
Program sisi server dan client

servertcp1.py - D:\Kegiatan 10\Kegiatan 2\servertcp1.py (2.7.17)

File Edit Format Run Options Window Help

```
# nama berkas : servertcp1.py
# TCP client : clienttcp1.py
import socket
import platform
s = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
s.bind(("", 1001))
s.listen(5)
print "Progam server"
data = ""
kamus = {"machine":platform.machine(),
         "release":platform.release(),
         "system":platform.system(),
         "version":platform.version(),
         "node":platform.node(),
         "quit":"OK"}

while data.lower() != "quit":
    komm, addr=s.accept()
    while data.lower() != "quit":
        data = komm.recv(1024)
        if data.lower() == 'quit':
            komm.send(kamus[data])
            print "Pertanyaan:", data
            s.close()
            break
        print "Pertanyaan:", data
        if kamus.has_key(data):
            komm.send(kamus[data])
        else:
            komm.send("Maaf perintah tidak ada")

s.close()
```

Ln: 19 Col: 33

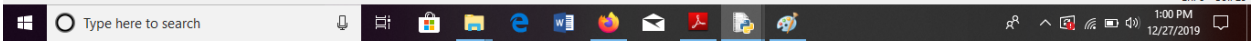


clienttcp1.py - D:\Kegiatan 10\Kegiatan 2\clienttcp1.py (2.7.17)

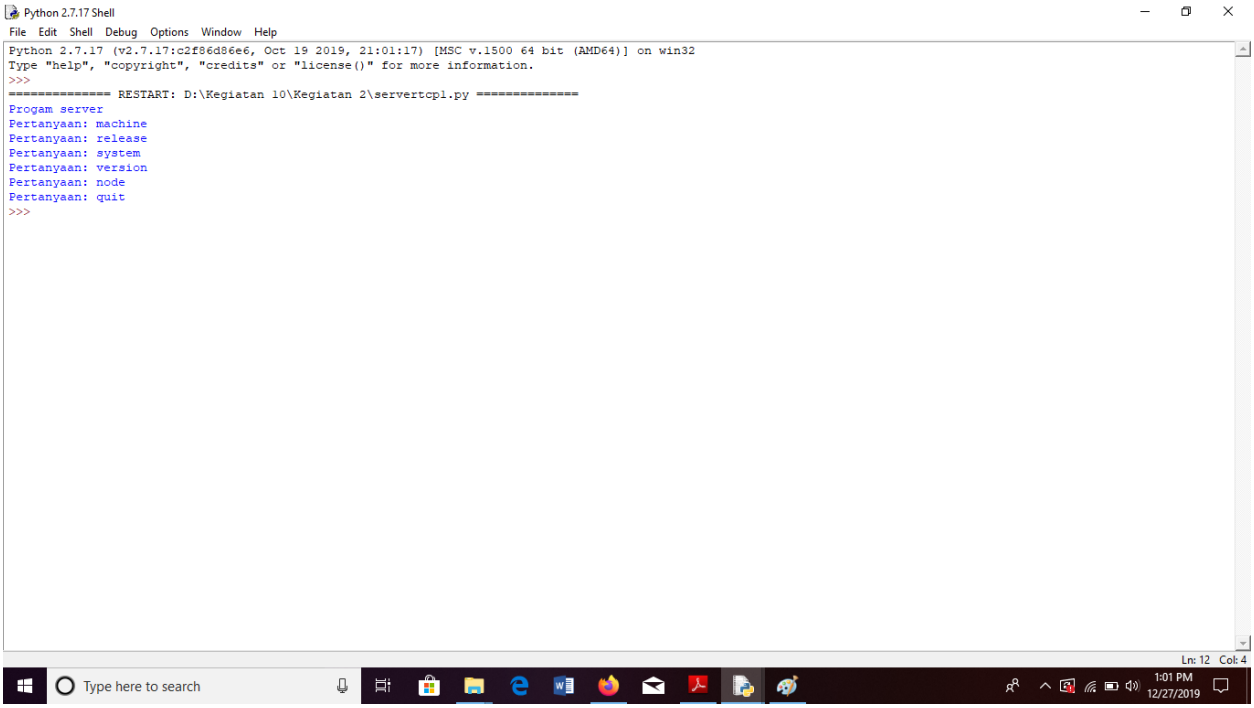
File Edit Format Run Options Window Help

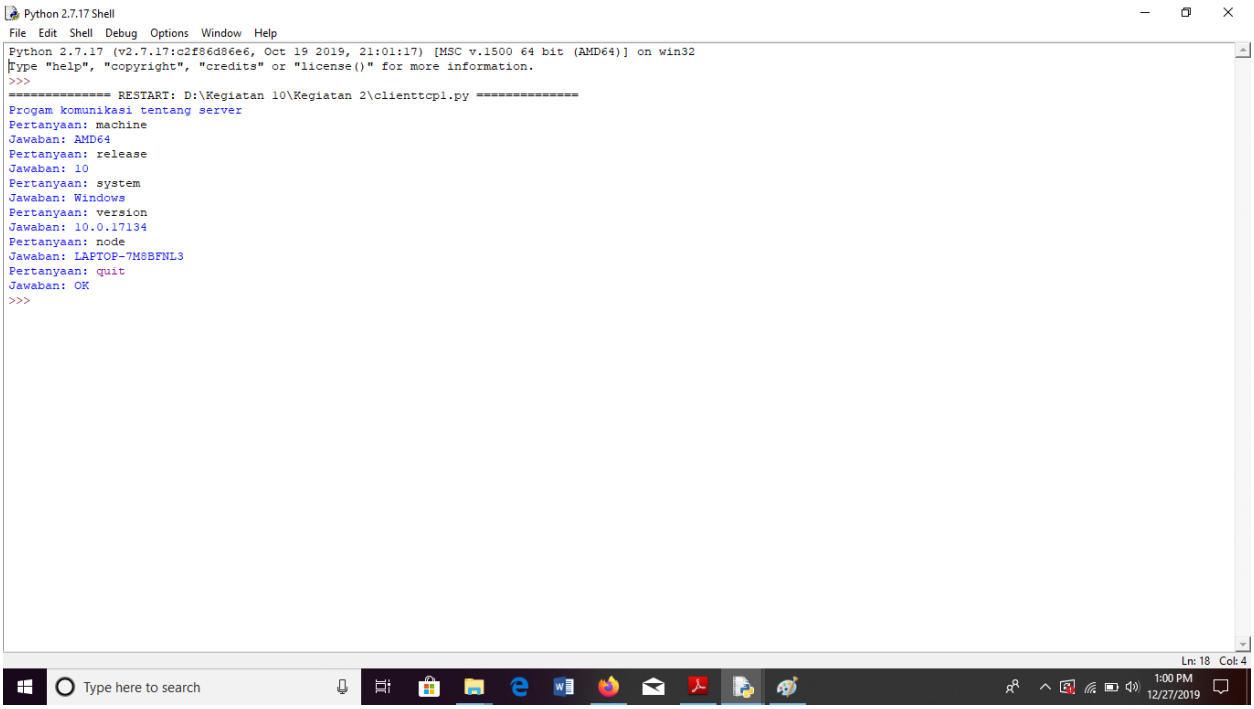
```
# nama berkas : clienttcp1.py
# TCP server : servertcp1.py
import socket

hostname = "localhost"
pesan = ""
s = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
s.connect((hostname, 1001))
print "Progam komunikasi tentang server"
while pesan.lower() != "quit":
    pesan = raw_input("Pertanyaan: ")
    s.send(pesan)
    if pesan.lower() != int:
        response = s.recv(1024)
        print "Jawaban:", response
    elif pesan.lower() != "quit":
        respone = s.recv(1024)
        print "Jawaban:", response
        break
s.close()
```

Ln: 8 Col: 25



Hasil terminal server dan client





Kegiatan 3. Menghitung luas bangun geometri

Program sisi server dan client

servertcp2.py - G:\Kegiatan 10\Kegiatan 3\servertcp2.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(("", 50008))
s.listen(5)
print"Server Ready!"
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 == 'panjang':
                p = int(item[1])
                komm.send('panjang disimpan')
            elif perintah == 'lebar':
                l = int(item[1])
                komm.send('lebar disimpan')
            else:
                komm.send('Pesan tidak diketahui')
        elif perintah == 'hitung':
            h = float(p*l)
            response = 'Luas persegi dengan panjang {} dan lebar {} adalah {}'.format(p,l,h)
            komm.send(response)
        else:
            komm.send('Pesan tidak diketahui')
s.close()
```

Ln: 38 Col: 0

clienttcp2.py - G:\Kegiatan 10\Kegiatan 3\clienttcp2.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, 50008))
print"Menghitung Luas Persegi"

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()
```

Ln: 21 Col: 0

Hasil terminal server dan client