Nama: Elang Erlangga Purwanto

NIM : L200190234

Kelas: F

# Praktikum Alogaritma dan Pemrograman Modul 10

## Kegiatan 1. Data diri dari server

Progam sisi server dan client

```
servertcp.py - G:/Kegiatan 1/servertcp.py (2.7.14)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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(("", 30004))
s.listen(3)
print "Server penjawab otomatis siap"
 print "Server penjawab otomatis siap"
data = ""
print "Server penjawab otomatis siap"
data = ""
kamus = {"nama":"Elang Erlangga Furwanto",
    "NIM":"L200190234",
    "angkatan":"2019",
    "motto":"Makan, Tidur, Ulangi",
    "kuliah":"Universitas Muhammadiyah Surakarta"}
while data.lower() != "keluar":
    komm, addrs.accept()
    while data.lower() != "keluar":
        data = komm.reov(1024)
    if data.lower() = "keluar":
        komm.send("OK!!")
        s.close()
        print "Fertanyaan:", data
        break
    print "Pertanyaan:", data
        if kamus.has key(data):
        komm.send(kamus[data])
        else:
                                             komm.send("Maaf perintah tidak ada")
  s.close()
📝 clienttcp.py - G:/Kegiatan 1/clienttcp.py (2.7.14)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ø
  File Edit Format Run Options Window Help
 # nama berkas : clienttcp.py
# TCP server : servertcp.py
import socket
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Α
hostname = "localhost"
pesan = ""
s = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
s.connect(chostname, 30004))
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()
  s.close()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Ln: 22 Col: 0
```

#### Hasil terminal server dan client

```
- 0 ×
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.
   Ln: 12 Col: 4
Python 2.7.14 Shell
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         o
   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.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Α.
 Type "copyright", "credits" or "license()" for more informatic
>>>

Mesin penjawab otomatis sudah siap
Fertanyaan: nama
Jawaban: Elang Erlangga Purwanto
Pertanyaan: NIM
Jawaban: 1200190234
Fertanyaan: angkatan
Jawaban: 2019
Fertanyaan: midita penjawaban jawaban: Jawaban: Jawaban jawaban: Midita penjawaban jawaban jaw
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Ln: 18 Col: 4
```

## Kegiatan 2. Informasi tentang server

#### Program sisi server dan client

```
servertcp1.py - G:/Kegiatan 10/Kegiatan 2/servertcp1.py (2.7.14)
                                                                                                                                                                                                                                                                                                                                                                                                                                o
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
                        break
print "Pertanyaan:", data
if kamus.has_key(data):
komm.send(kamus[data])
                                   komm.send("Maaf perintah tidak ada")
  s.close()
                                                                                                                                                                                                                                                                                                                                                                                                                               Ln: 33 Col: 0
iclienttcp1.py - G:/Kegiatan 10/Kegiatan 2/clienttcp1.py (2.7.14)
                                                                                                                                                                                                                                                                                                                                                                                                                                ø
 File Edit Format Run Options Window Help

# nama berkas : clienttcpl.py

# TCP server : servertcpl.py

import socket
hostname = "localhost"
pesan = ""
s = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
s.connect((hostname, 50004))
print "Progam komunikasi tentang server"
while pesan.lower() != "quit":
pesan = raw input("Pertanyan: ")
s.send(pesan)
if pesan.lower() != int:
    response = s.recv(1024)
    print "Jawaban:", response
elif pesan.lower() != "quit":
    response = s.recv(1024)
    print "Jawaban:", response
break
                         break
  s.close()
                                                                                                                                                                                                                                                                                                                                                                                                                                  Ln: 22 Col: 0
```

## Hasil terminal server dan client

```
Python 2.7.14 Shell
                                                                                                                                                                                                                                                                                                                                                        0
 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: G:/Kegiatan 10/Kegiatan 2/servertcpl.py =======
 Progam server Pertanyaan: machine Pertanyaan: machine Pertanyaan: system Pertanyaan: version Pertanyaan: node Pertanyaan: quit
                                                                                                                                                                                                                                                                                                                                                   Ln: 12 Col: 4
Python 2.7.14 Shell
                                                                                                                                                                                                                                                                                                                                                          o
 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.
                                                                                                                                                                                                                                                                                                                                                                             Α
Type "copyright", "credits" or "license()" for more information.

>>>

Frogam Komunikasi tentang server
Pertanyaan: machine
Jawaban: AMD64
Pertanyaan: release
Jawaban: 10
Pertanyaan: system
Jawaban: 10
Pertanyaan: version
Jawaban: 10.0.13862
Pertanyaan: node
Jawaban: DESKTOP-3SF566G
Pertanyaan: quit
Jawaban: OK

>>>
                                                                                                                                                                                                                                                                                                                                                     Ln: 18 Col: 4
```

# Kegiatan 3. Menghitung luas bangun geometri

Program sisi server dan client

```
servertcp2.py - G:\Kegiatan 10\Kegiatan 3\servertcp2.py (2.7.14)
                                                                                                                                                                                                                                                                                                               O
 File Edit Format Run Options Window Help
 s = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
 s.bind(("", 50008))
s.listen(5)
print"Server Ready!"
perintah = ''
a=0
 a=0
t=0
 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*1)
        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
                                                                                                                                                                                                                                                                                                                ₽
iclienttcp2.py - G:\Kegiatan 10\Kegiatan 3\clienttcp2.py (2.7.14)
 File Edit Format Run Options Window Help
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()
elif pesan.lower() != "keluar":
    response = s.recv(1024)
   print "Response: ", response
s.close()
                                                                                                                                                                                                                                                                                                                 Ln: 21 Col: 0
```

## Hasil terminal server dan client

```
- 🗇 ×
                                                                                                                                                   Α
 Server Ready!
pesan: panjang
pesan: lebar
pesan: hitung
>>>
                                                                                                                                          Ln: 9 Col: 4
Python 2.7.14 Shell
                                                                                                                                           o
 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.
                                                                                                                                                   Α
Ln: 14 Col: 4
```