

Praktikum Algoritma dan Pemrograman

Modul 10

Kegiatan 1:

```
kegiatan 1 Server.py - C:\Users\ASUS\Downloads\kegiatan 1 Server.py (2.7.14)
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import socket

s = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
s.bind(('', 50002))
s.listen(5)
print "Program Komunikasi Tentang Data Diri"
data = ""
kamus = {"nama": "Sekar Tyas Mawarni",
        "NIM": "L200190215",
        "angkatan": "2019",
        "keluar": "Siap!"}

while data.lower() != "keluar":
    kamm, addr = s.accept()
    while data.lower() != "keluar":
        data = kamm.recv(1024)
        print "Perintah: ", data
        if kamus.has_key(data):
            kamm.send(kamus[data])
        else:
            kamm.send("Maaf, Perintah Tidak Dimengerti")

Python 2.7.14 Shell
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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:\Users\ASUS\Downloads\kegiatan 1 Server.py =====
Program Komunikasi Tentang Data Diri

Kegiatan 1 Client.py - C:\Users\ASUS\Downloads\Kegiatan 1 Client.py (2.7.14)
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import socket

hostname = "localhost"
pesan = ""
s = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
s.connect((hostname, 50007))
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()
        break
    elif pesan.lower() != "keluar":
        response = s.recv(1024)
        print "Jawab: ", response
s.close()

Python 2.7.14 Shell
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Python 2.7.14 (v2.7.14:84471935ed, Sep 16 2017, 20:25:58) [MSC v.1500 64 bit (AMD64)] on win32
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>>>
===== RESTART: C:\Users\ASUS\Downloads\Kegiatan 1 Client.py =====
Program Komunikasi Tentang Data Diri
Perintah:
```

```
C:\Python27\python.exe
Program Komunikasi Tentang Data Diri
Perintah: nama
Jawab: Sekar Tyas Mawarni
Perintah: NIM
Jawab: L200190215
Perintah: angkatan
Jawab: 2019
Perintah: hgcbdsic
Jawab: Maaf,Perintah Tidak Dimengerti
Perintah:
```

Kegiatan 2:

```
kegiatan 2 Server.py - C:\Users\ASUS\Downloads\kegiatan 2 Server.py (2.7.14)
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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()
            kkomm.send(respon)
        elif data.lower() == "release":
            respon = platform.release()
            kkomm.send(respon)
        elif data.lower() == "system":
            respon = platform.system()
            kkomm.send(respon)
        elif data.lower() == "version":
            respon = platform.version()
            kkomm.send(respon)
        elif data.lower() == "node":
            respon = platform.node()
            kkomm.send(respon)
        else:
            kkomm.send("unknown command")

Python 2.7.14 Shell
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>>>
===== RESTART: C:\Users\ASUS\Downloads\kegiatan 2 Server.py =====
Program Komunikasi Tentang Server
|
```

```
Kegiatan 2 Client.py - C:\Users\ASUS\Downloads\Kegiatan 2 Client.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, 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()

Python 2.7.14 Shell
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Python 2.7.14 (v2.7.14:84471935ed, Sep 16 2017, 20:25:58) [MSC v.1500 64 bit (AMD64)] on win32
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>>>
===== RESTART: C:\Users\ASUS\Downloads\Kegiatan 2 Server.py =====
Program Komunikasi Tentang Server
>>>
===== RESTART: C:\Users\ASUS\Downloads\Kegiatan 2 Client.py =====
Program Komunikasi Tentang Server
Command:
```

```
C:\Python27\python.exe
Program Komunikasi Tentang Server
Command: machine
Response: AMD64
Command: release
Response: AMD64
Command: system
Response: Windows
Command: version
Response: 10.0.18362
Command: node
Response: DESKTOP-HDVMEQF
Command: cdgbsdyhcv
Response: unknown command
Command: _
```

Kegiatan 3:

Kegiatan 3 Server.py - C:\Users\ASUS\Downloads\Kegiatan 3 Server.py (2.7.14)

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```
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 jajargenjang dengan alas {} tinggi {} adalah {}'.format(a,t,L)
            komm.send(response)
        else:
            komm.send('Pesan tidak diketahui')
```

Kegiatan 3 Client.py - C:\Users\ASUS\Downloads\Kegiatan 3 Client.py (2.7.14)

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```
import socket
hostname = 'localhost'
pesan = ''
s = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
s.connect((hostname, 50009))
print "Menghitung Luas Jajar Genjang"
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()
```

Python 2.7.14 Shell

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```
Python 2.7.14 (v2.7.14:84471935ed, Sep 16 2017, 20:25:58) [MSC v.1500 64 bit (AMD64)] on win32
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>>>
===== RESTART: C:\Users\ASUS\Downloads\Kegiatan 3 Server.py =====
Server siap

===== RESTART: C:\Users\ASUS\Downloads\Kegiatan 3 Client.py =====
Menghitung Luas Jajar Genjang
pesan:
```