

## Laporan Praktikum Algopro 10

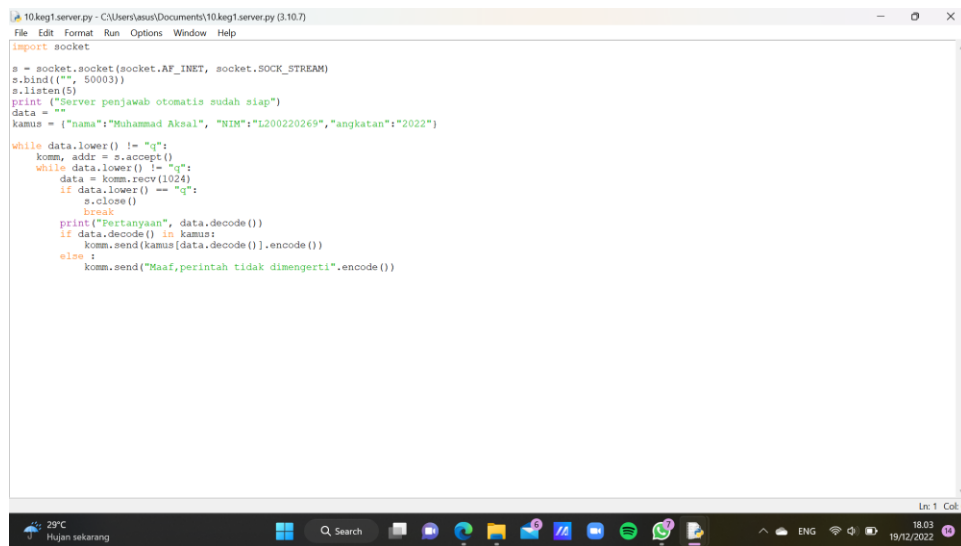


Nama : Muhammad Aksal

NIM : L200202269

# 1. Kegiatan 1 : Data diri dari server

a. Berikut adalah screenshoot code sisi server:

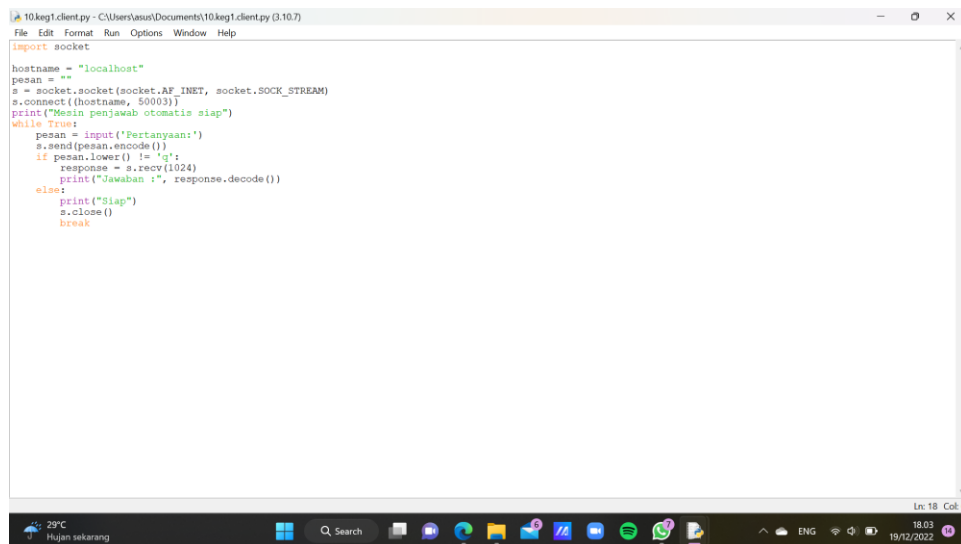


```
10kg1.server.py - C:\Users\asus\Documents\10kg1.server.py (3.10.7)
File Edit Format Run Options Window Help
import socket

s = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
s.bind(("", 50003))
s.listen(5)
print("Server penjawab otomatis sudah siap")
data = ""
kamus = {"nama": "Muhammad Aksal", "NIM": "1200220269", "angkatan": "2022"}

while data.lower() != "q":
    komm, addr = s.accept()
    while data.lower() != "q":
        data = komm.recv(1024)
        if data.lower() == "q":
            s.close()
            break
        print("Pertanyaan", data.decode())
        if data.decode() in kamus:
            komm.send(kamus[data.decode()].encode())
        else:
            komm.send("Maaf, perintah tidak dimengerti".encode())
```

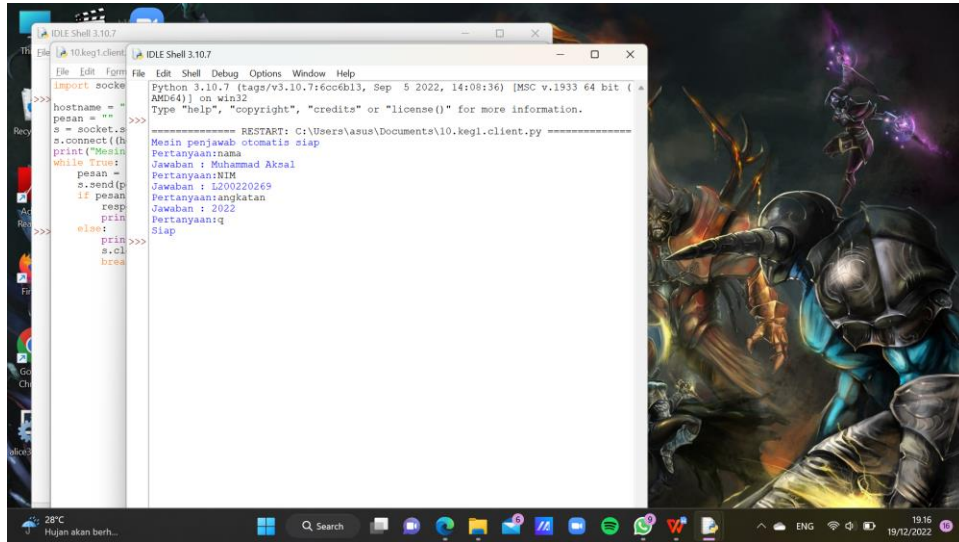
b. Berikut adalah screenshoot code dari sisi client:



```
10kg1.client.py - C:\Users\asus\Documents\10kg1.client.py (3.10.7)
File Edit Format Run Options Window Help
import socket

hostname = "localhost"
pesan = ""
s = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
s.connect((hostname, 50003))
print("Mesin penjawab otomatis siap")
while True:
    pesan = input("Pertanyaan:")
    s.send(pesan.encode())
    if pesan.lower() != "q":
        response = s.recv(1024)
        print("Jawaban :", response.decode())
    else:
        print("Siap")
        s.close()
        break
```

c. Berikut adalah screenshoot hasil setelah code dijalankan:

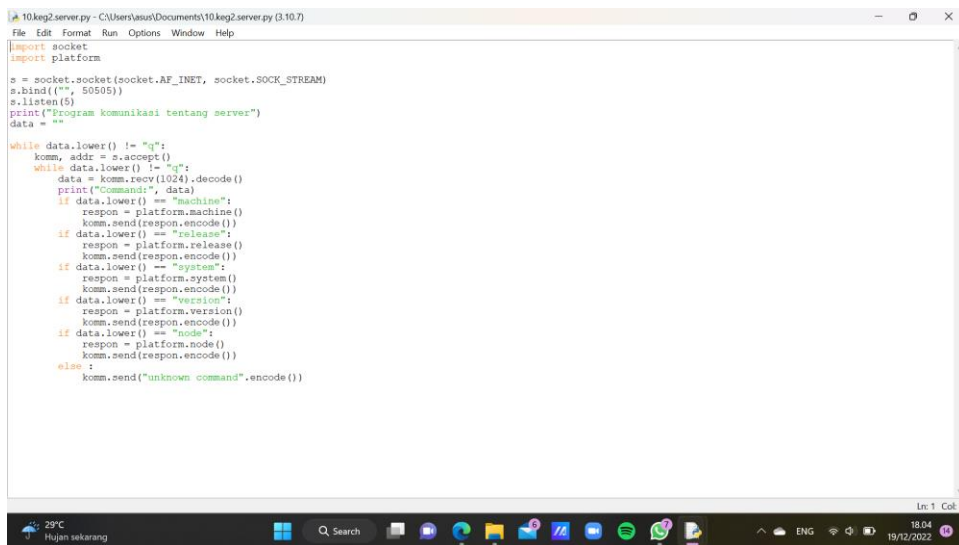


```
Python 3.10.7 (tags/v3.10.7:6cc6b13, Sep 5 2022, 14:08:36) [MSC v.1933 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.

===== RESTART: C:\Users\asus\Documents\10.keg1.client.py =====
Mesin penjawab otomatis siap
Pertanyaan:nama
Jawaban : Muhammad Akmal
Pertanyaan:NIM
Jawaban : 2209220269
Pertanyaan:angkatan
Jawaban : 2022
Pertanyaan:q
Siap
```

## 2. Kegiatan 2 : Informasi tentang server

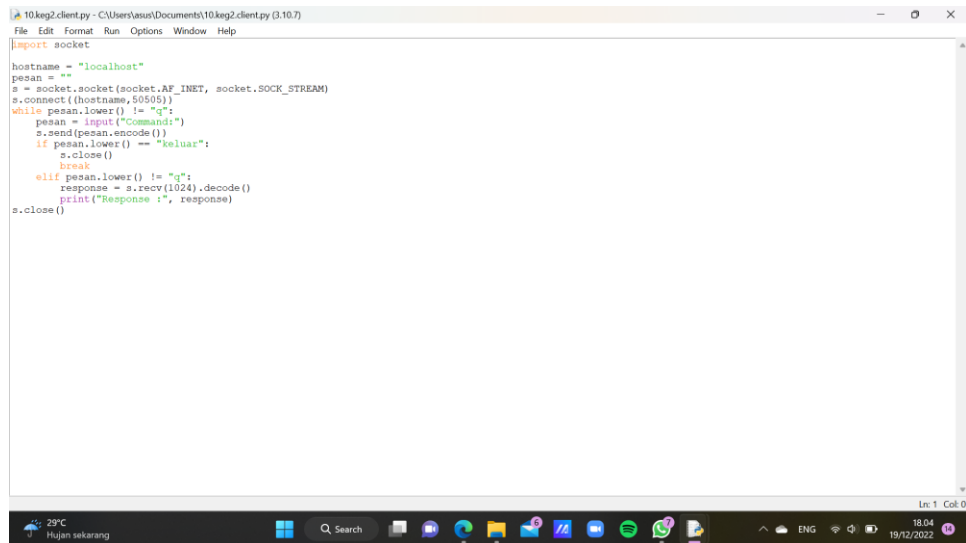
a. Berikut adalah screenshoot code sisi server:



```
Python 3.10.7 (tags/v3.10.7:6cc6b13, Sep 5 2022, 14:08:36) [MSC v.1933 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.

===== RESTART: C:\Users\asus\Documents\10.keg2.server.py =====
Program komunikasi tentang server
data = ""
while data.lower() != "q":
    komm, addr = s.accept()
    while data.lower() != "q":
        data = komm.recv(1024).decode()
        print("Command:", data)
        if data.lower() == "machine":
            respon = platform.machine()
            komm.send(respon.encode())
        if data.lower() == "release":
            respon = platform.release()
            komm.send(respon.encode())
        if data.lower() == "system":
            respon = platform.system()
            komm.send(respon.encode())
        if data.lower() == "version":
            respon = platform.version()
            komm.send(respon.encode())
        if data.lower() == "node":
            respon = platform.node()
            komm.send(respon.encode())
        else:
            komm.send("unknown command".encode())
```

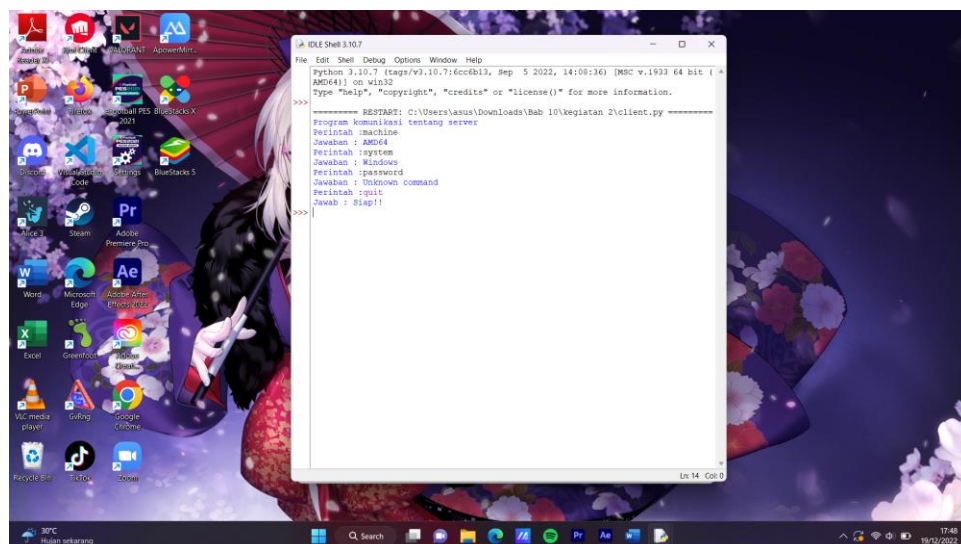
b. Berikut adalah screenshoot code dari sisi client:



```
import socket

hostname = "localhost"
pesan = ""
s = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
s.connect((hostname, 50505))
while pesan.lower() != "q":
    pesan = input("Command:")
    s.send(pesan.encode())
    if pesan.lower() == "keluar":
        s.close()
        break
    elif pesan.lower() != "q":
        response = s.recv(1024).decode()
        print("Response :", response)
s.close()
```

c. Berikut adalah screenshoot setelah code dijalankan:



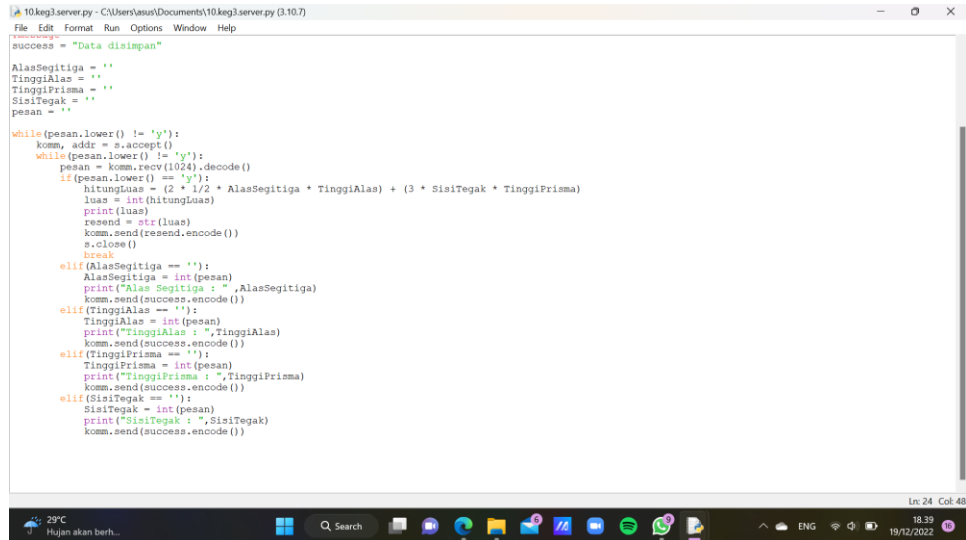
```
Python 3.10.7 (tags/w3.10.7:6cc6b1, Sep 5 2022, 14:08:36) [AMD64] on win32
Type "help", "copyright", "credits" or "license()" for more information.

>>>
===== RESTART: C:\Users\asus\Downloads\Bab 10\kegiatan 2\client.py =====
Perintah : machine
Jawaban : AMD64
Perintah : system
Jawaban : Windows
Perintah : password
Jawaban : Unknown command
Perintah : quit
Jawab : Bye!!

>>>
```

### 3. Kegiatan 3 : Menghitung luas bangun geometri

a. Berikut adalah screenshoot code dari sisi server:



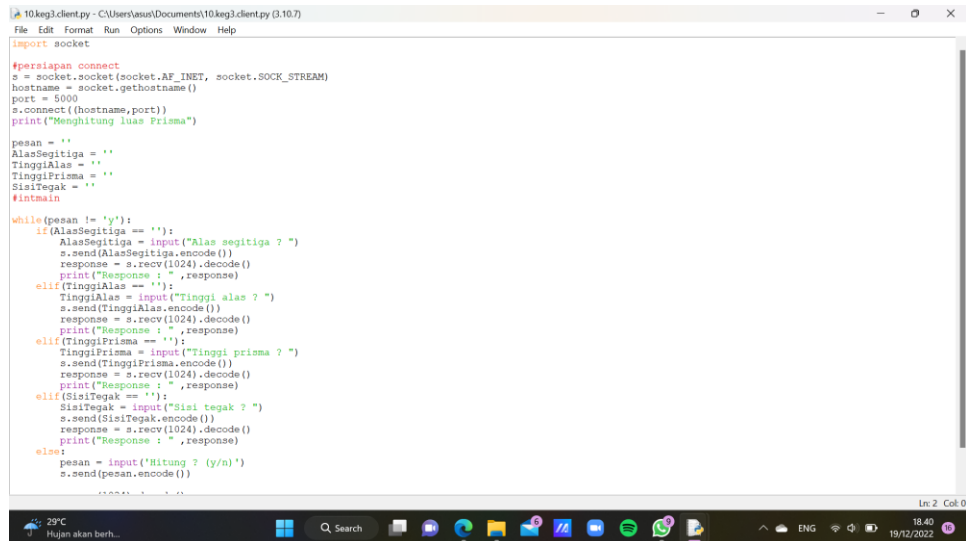
```
10keg3.server.py - C:\Users\jasus\Documents\10keg3.server.py (3.10.7)
File Edit Format Run Options Window Help

sucess = "Data disimpan"

AlasSegitiga = ''
TinggiAlas = ''
TinggiPrisma = ''
SisiTegak = ''
pesan = ''

while(pesan.lower() != 'y'):
    komm, addr = s.accept()
    while(pesan.lower() != 'y'):
        pesan = komm.recv(1024).decode()
        if(pesan.lower() == 'y'):
            hitungLuas = (2 * 1/2 * AlasSegitiga * TinggiAlas) + (3 * SisiTegak * TinggiPrisma)
            luas = int(hitungLuas)
            print(luas)
            resend = str(luas)
            komm.send(resend.encode())
            s.close()
            break
        elif(AlasSegitiga == ''):
            AlasSegitiga = int(pesan)
            print("Alas Segitiga : ", AlasSegitiga)
            komm.send(sucess.encode())
        elif(TinggiAlas == ''):
            TinggiAlas = int(pesan)
            print("TinggiAlas : ", TinggiAlas)
            komm.send(sucess.encode())
        elif(TinggiPrisma == ''):
            TinggiPrisma = int(pesan)
            print("TinggiPrisma : ", TinggiPrisma)
            komm.send(sucess.encode())
        elif(SisiTegak == ''):
            SisiTegak = int(pesan)
            print("SisiTegak : ", SisiTegak)
            komm.send(sucess.encode())
```

b. Berikut adalah screenshoot code dari sisi client:



```
10keg3.client.py - C:\Users\jasus\Documents\10keg3.client.py (3.10.7)
File Edit Format Run Options Window Help

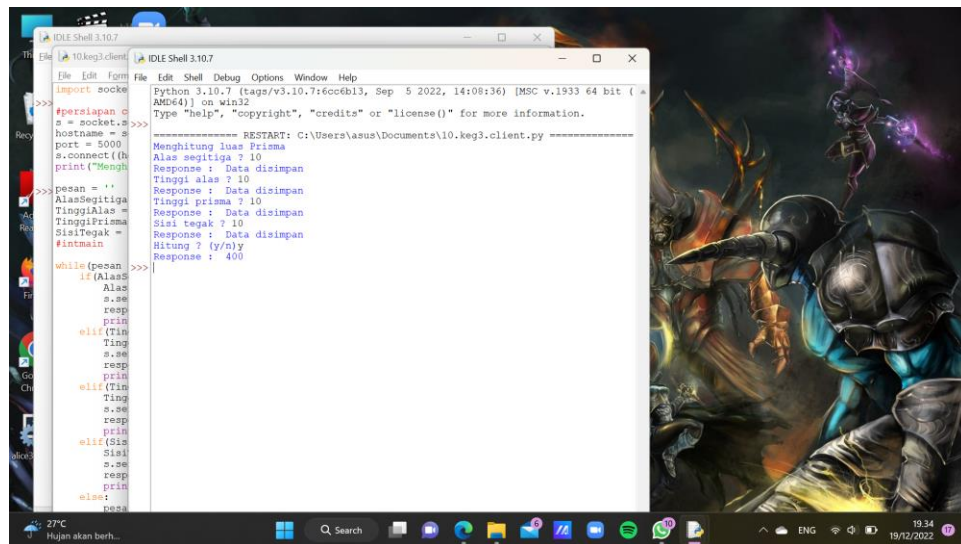
import socket

#persiapan connect
s = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
hostname = socket.gethostname()
port = 5000
s.connect((hostname,port))
print("Menghitung luas Prisma")

pesan = ''
AlasSegitiga = ''
TinggiAlas = ''
TinggiPrisma = ''
SisiTegak = ''

#main
while(pesan != 'y'):
    if(AlasSegitiga == ''):
        AlasSegitiga = input("Alas segitiga ? ")
        s.send(AlasSegitiga.encode())
        response = s.recv(1024).decode()
        print("Response : ", response)
    elif(TinggiAlas == ''):
        TinggiAlas = input("Tinggi alas ? ")
        s.send(TinggiAlas.encode())
        response = s.recv(1024).decode()
        print("Response : ", response)
    elif(TinggiPrisma == ''):
        TinggiPrisma = input("Tinggi prisma ? ")
        s.send(TinggiPrisma.encode())
        response = s.recv(1024).decode()
        print("Response : ", response)
    elif(SisiTegak == ''):
        SisiTegak = input("Sisi tegak ? ")
        s.send(SisiTegak.encode())
        response = s.recv(1024).decode()
        print("Response : ", response)
    else:
        pesan = input('Hitung ? (y/n)')
        s.send(pesan.encode())
```

c. Berikut adalah screenshoot hasil dari code dijalankan:



```
Python 3.10.7 (tags/v3.10.7:6cc6b13, Sep 5 2022, 14:08:36) [MSC v.1933 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.

===== RESTART: C:\Users\asus\Documents\10.keg3.client.py =====
Menghitung luas Prisma
Alas segitiga ? 10
Response : Data disimpan
Tinggi alas ? 10
Response : Data disimpan
Tinggi prisma ? 10
Response : Data disimpan
Sisi tegak ? 10
Response : Data disimpan
Hitung ? (y/n)y
Response : 400
```