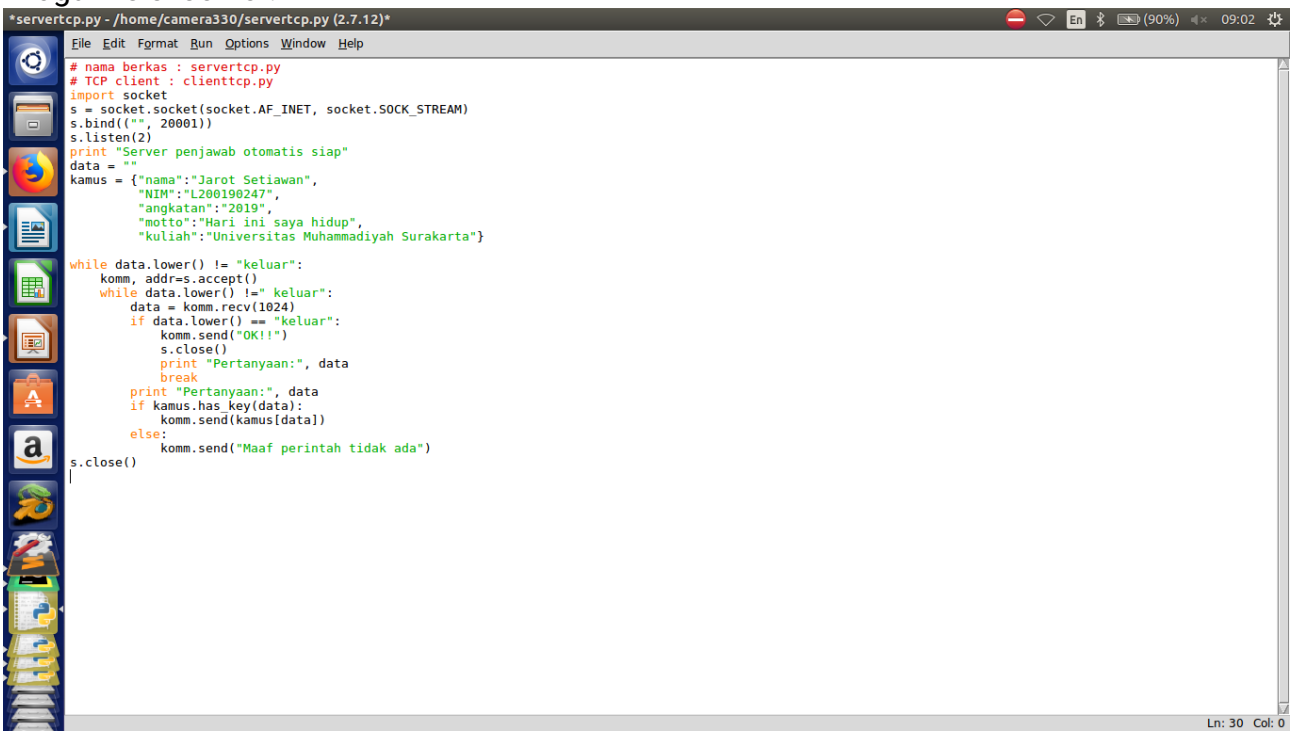
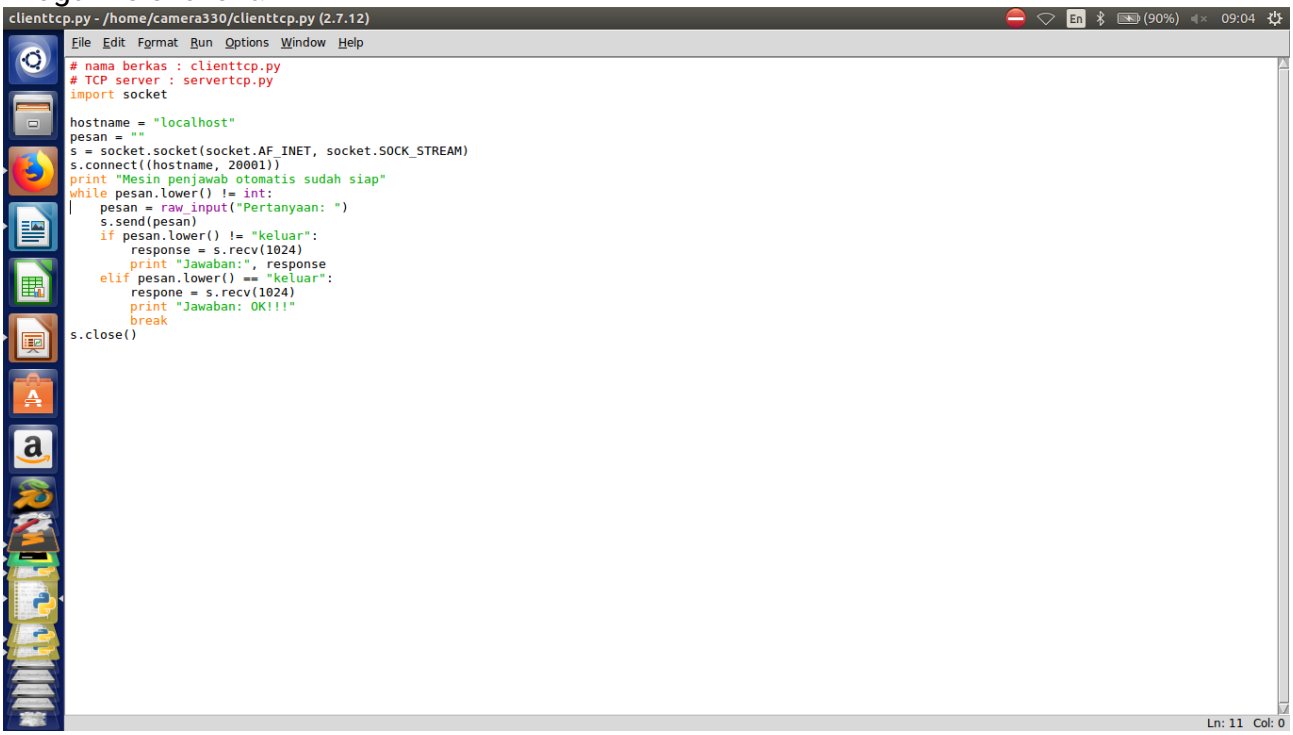
Nama : Jarot Setiawan
NIM : L200190247
kelas : F

Kegiatan 1.

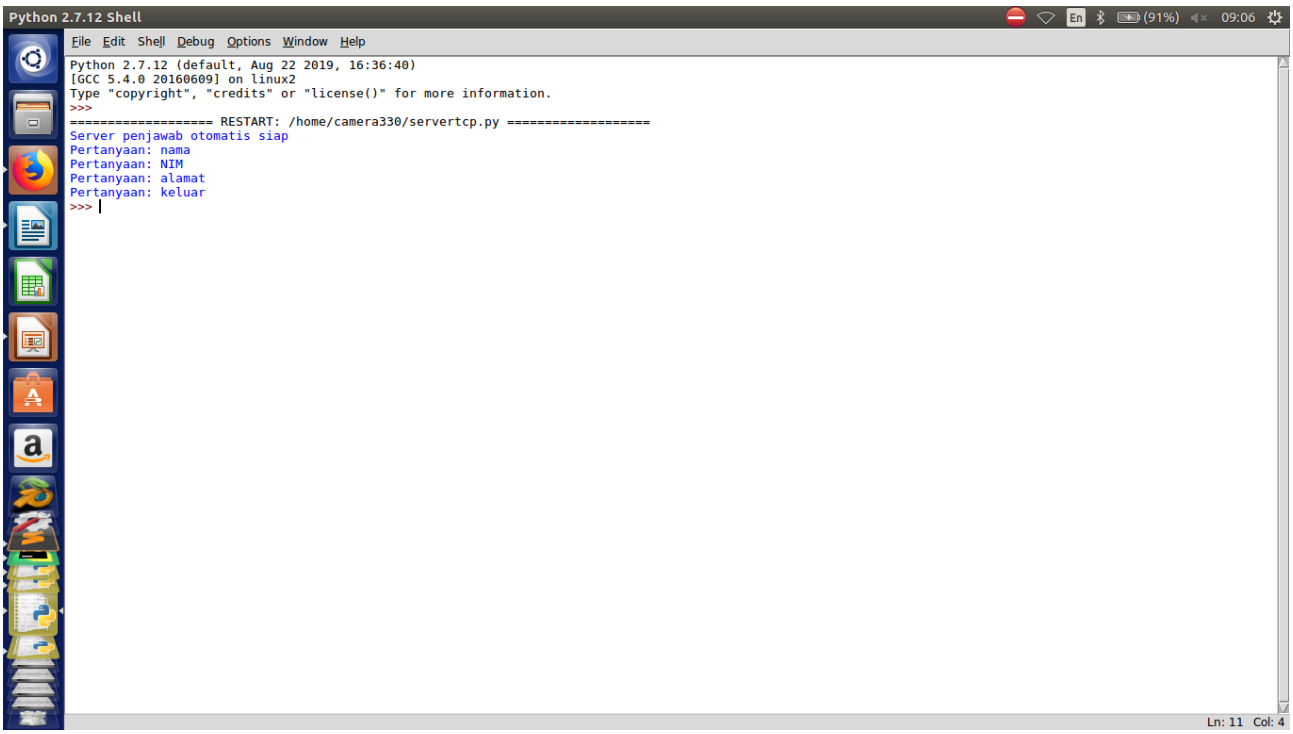
Progam sisi server.



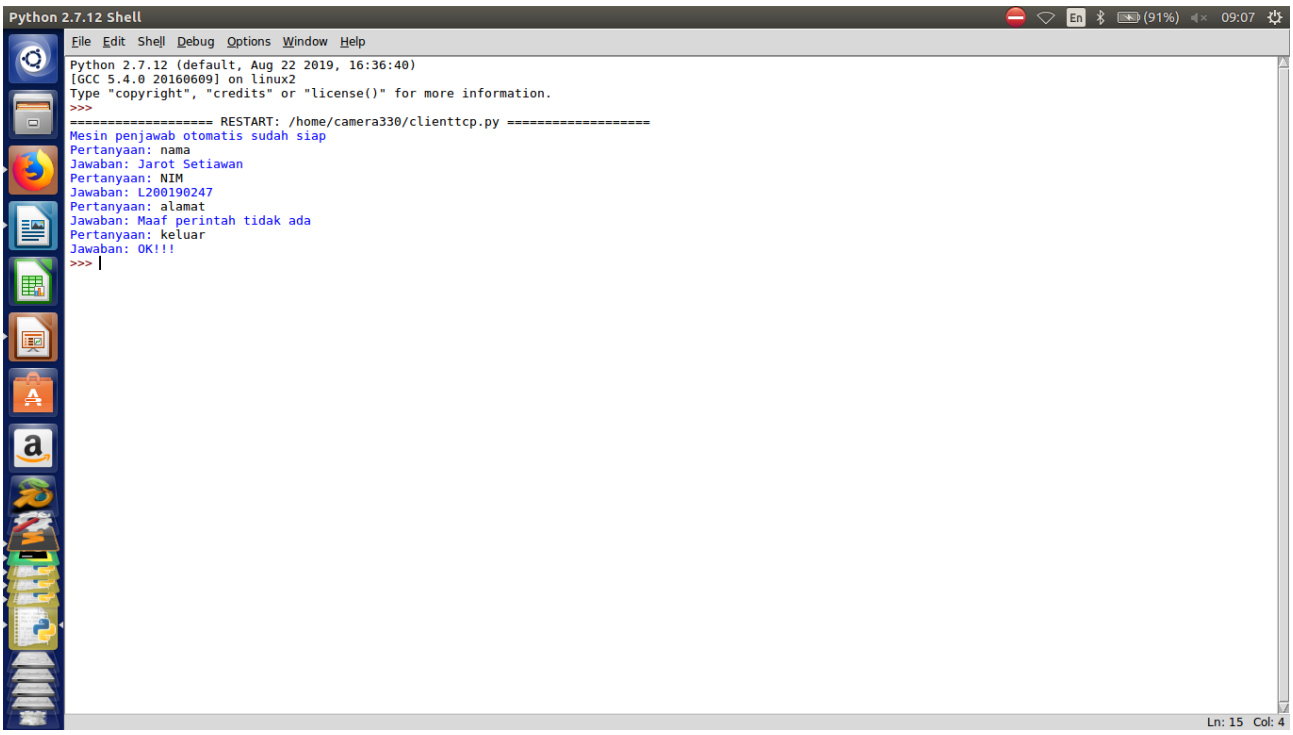
Progam sisi client.



Screen shot terminal server.

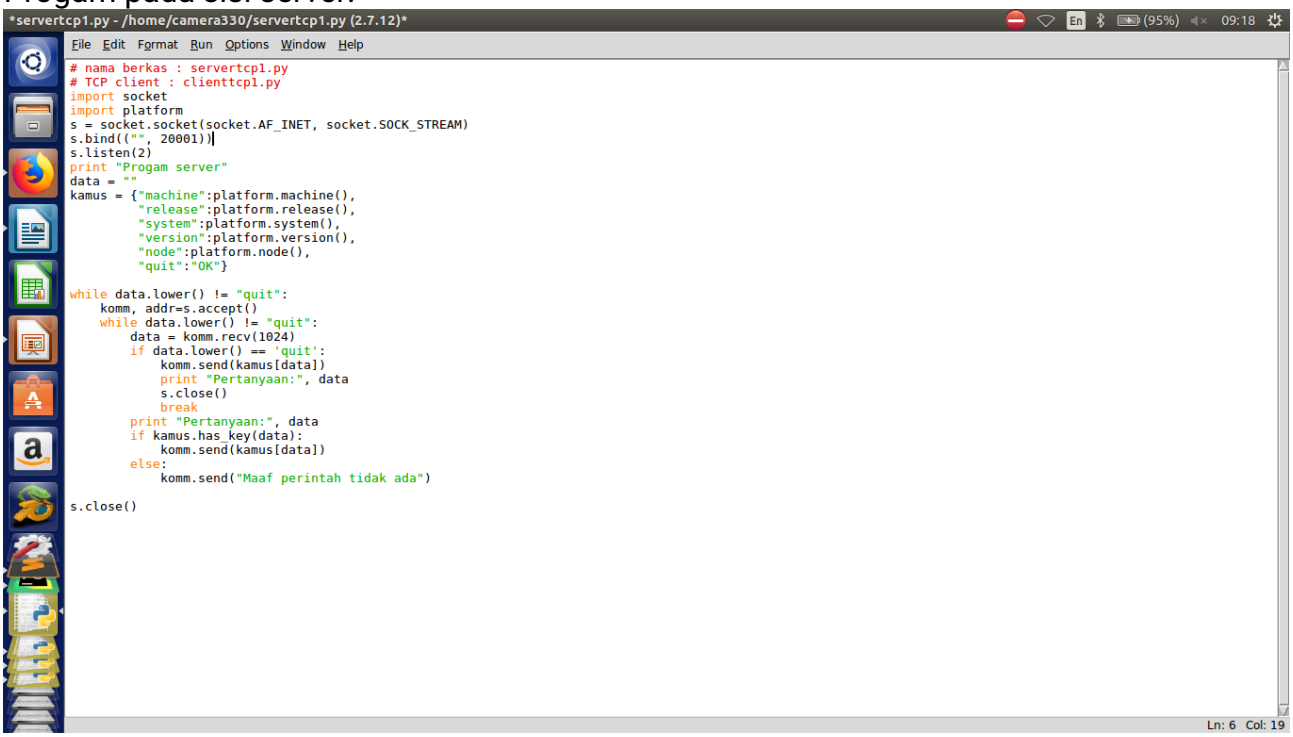


Screen shot terminal client.

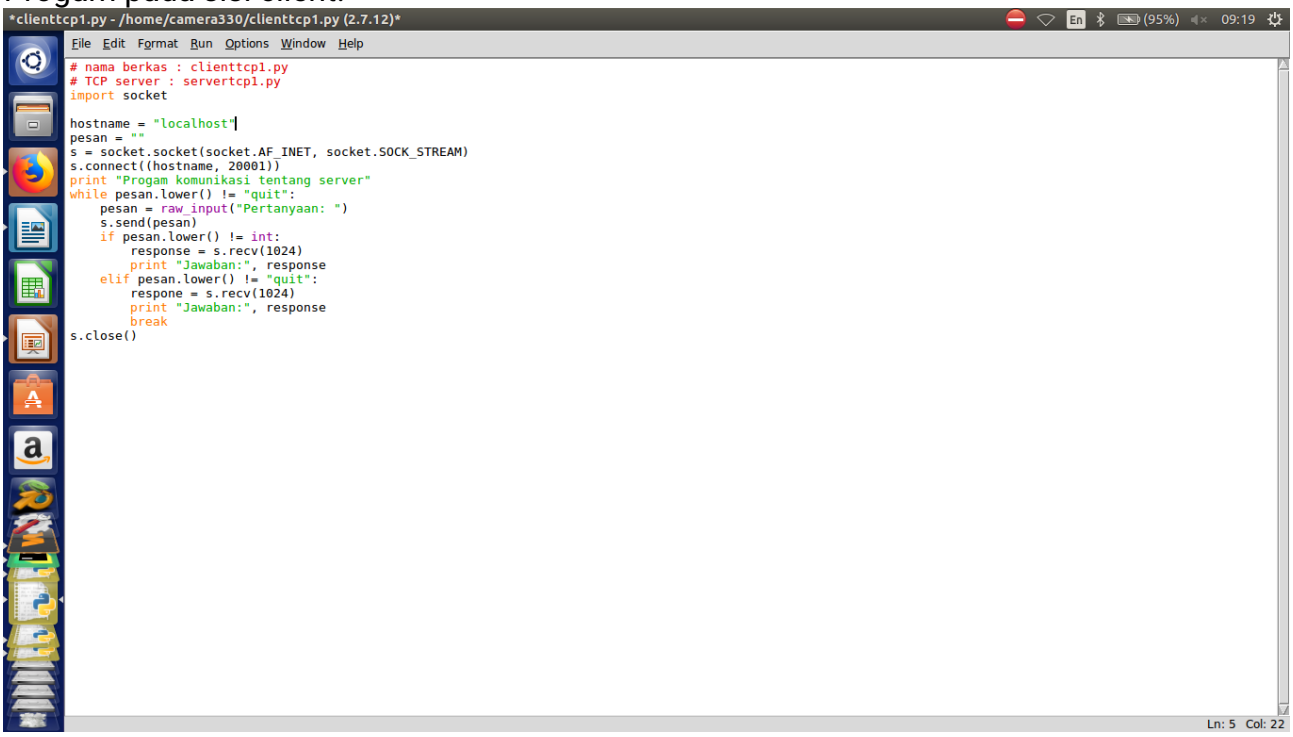


Kegiatan 2.

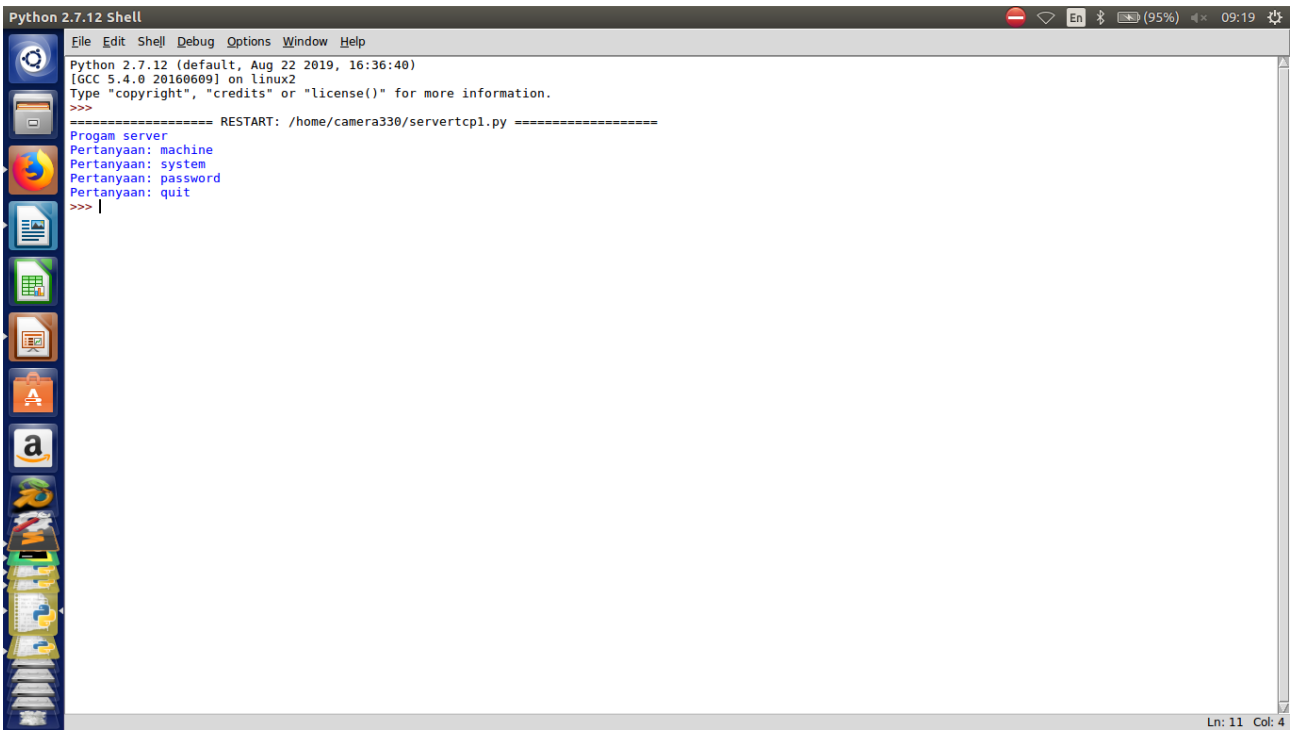
Progam pada sisi server.



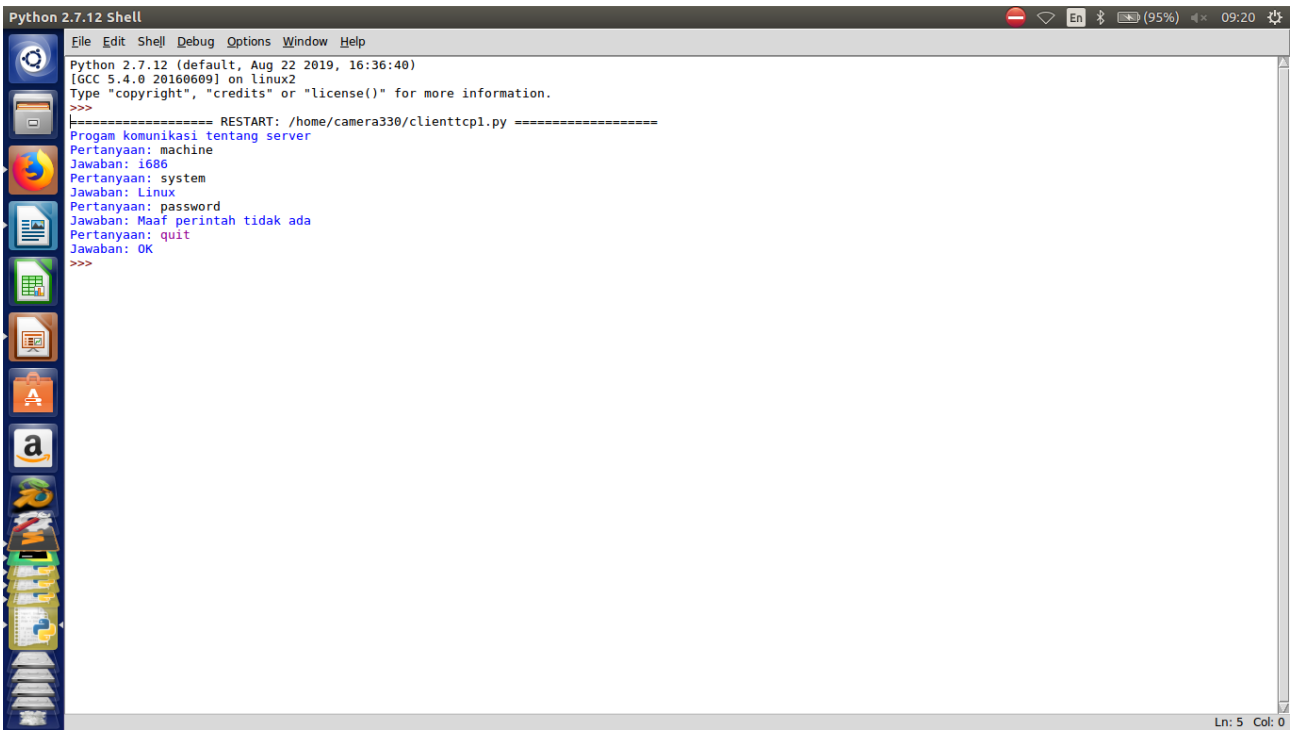
Progam pada sisi client.



Screen shot terimal server.



Screen shot terminal client.



Kegiatan 3.

Progam pada sisi server.

servertcp2.py - /home/camera330/servertcp2.py (2.7.12)

File Edit Format Run Options Window Help

```
# nama berkas : servertcp2.py
# TCP client : clienttcp2.py
import socket

s = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
s.bind(("", 20001))
s.listen(20)
print "Server penghitung luas tabung otomatis siap"
data = ""
kamus = {"jari-jari":0,
         "tinggi":0,
         "keluar":"OK!!"}
def hitungluastabung(jari, tinggi):
    import math
    return str(2*math.pi*jari*(jari+tinggi))


while data.lower() != "keluar":
    komm, addr=s.accept()
    while data.lower() != "keluar":
        data = komm.recv(1024)
        angka = data.split()
        if data.lower() == 'keluar':
            komm.send(kamus[data])
            s.close()
            break
        elif data.lower() == "hitung":
            print "Pesan:", data
            komm.send("luas tabung berjari-jari %s adalah %s"%(kamus["jari-jari"], hitungluastabung(kamus["jari-jari"],kamus["tinggi"])))
            continue
        print "Pesan:", data
        for i in kamus:
            if i in data:
                    kamus[i] = int(angka[-1])
                    komm.send("Parameter dicatat")
                    break
        else:
            komm.send("Maaf perintah tidak ada")
s.close()
```

Ln: 24 Col: 23

Progam pada sisi client.

clienttcp2.py - /home/camera330/clienttcp2.py (2.7.12)

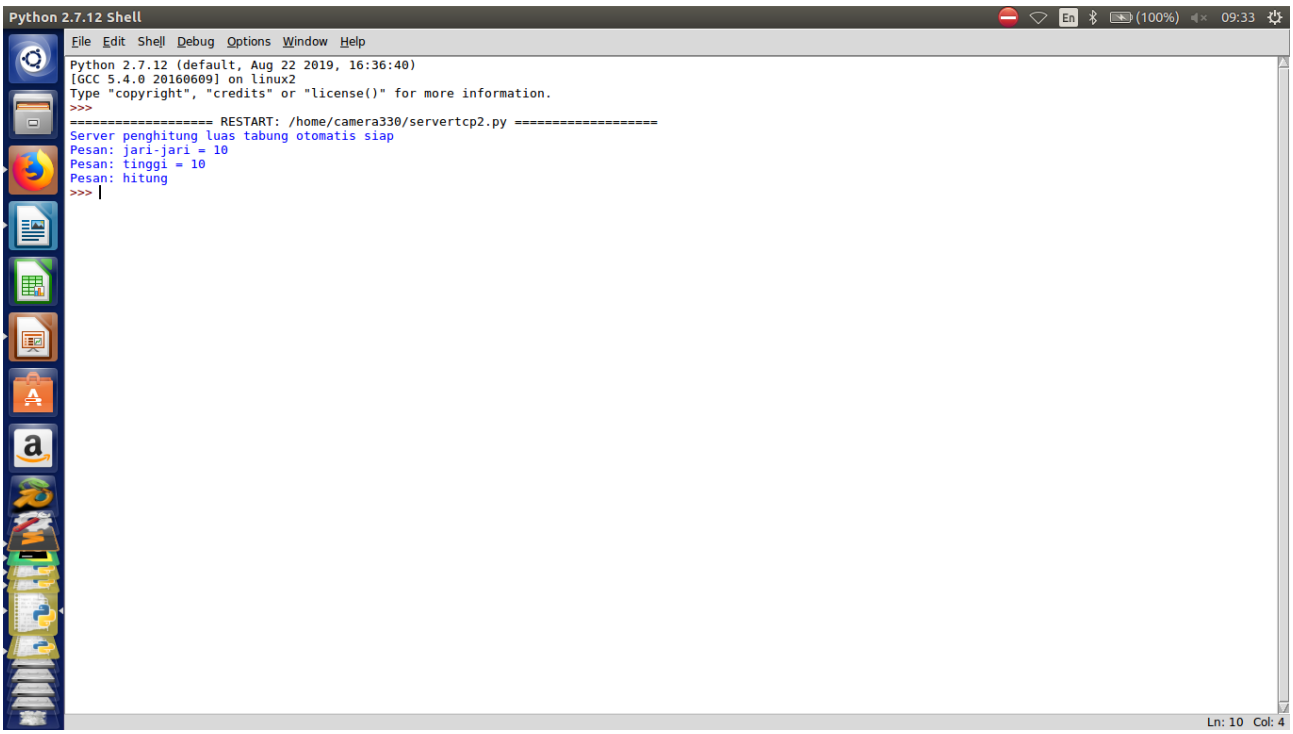
File Edit Format Run Options Window Help

```
# nama berkas : clienttcp2.py
# TCP server : servertcp2.py
import socket

hostname = "localhost"
pesan = ""
s = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
s.connect((hostname, 20001))
print "Mesin penghitung luas tabung otomatis sudah siap"
while pesan.lower() != "keluar":
    pesan = str(raw_input("Pesan: "))
    s.send(pesan)
    if pesan.lower() != int:
        response = s.recv(1024)
        print "Jawaban:", response
    elif pesan.lower() != "keluar":
        respone = s.recv(1024)
        print "Jawaban:", response
        break
s.close()
```

Ln: 8 Col: 28

Screen shot terimal server.



Screen shot terminal client.