

Tugas PSJ

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Program Server

```
from socket import *
import os

s = socket(AF_INET,SOCK_DGRAM)
s.setsockopt(SOL_SOCKET, SO_BROADCAST, 1)
s.bind(("127.0.0.1",10000) )
maxsize = 1024
db = {}

while True:
    message, addr = s.recvfrom(maxsize)
    data = message.decode()
    strdata = data.split(":")
    cmd = strdata[0]
    nim = strdata[1]
    nama = strdata[2]

    if cmd == "checkin" :
        db[nim] = nama
    elif cmd == "checkout" :
        db.pop(nim)
    else :
        pass

    # For Linux
    os.system("clear")

    print("Students in Lab")

    for x in db :
        print("%s - %s" %(x, db[x]))
```

Program Client

```
from socket import *
import sys

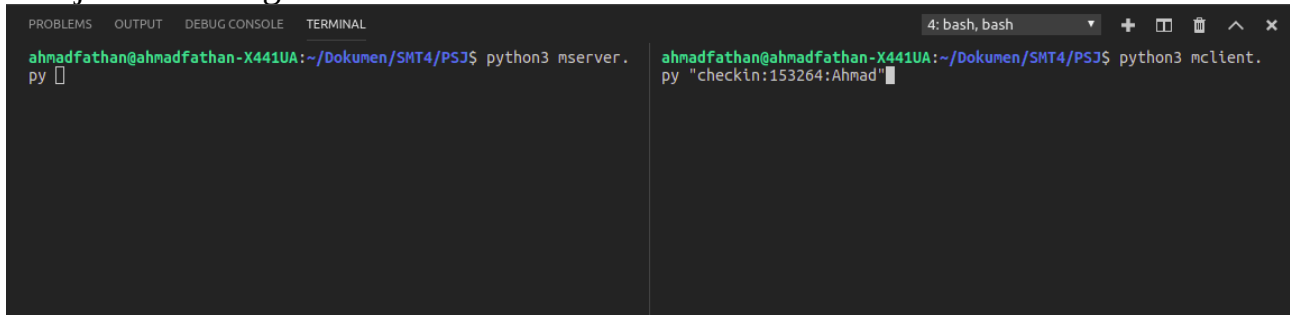
if len(sys.argv) < 2 :
    print("Missing 1 argument message")
    sys.exit()

msg = sys.argv[1]

s = socket(AF_INET,SOCK_DGRAM)
s.setsockopt(SOL_SOCKET, SO_BROADCAST, 1)
maxsize = 1024
BADDRESS = ('127.0.0.1', 10000)
s.sendto(msg.encode(), BADDRESS)
s.close()
```

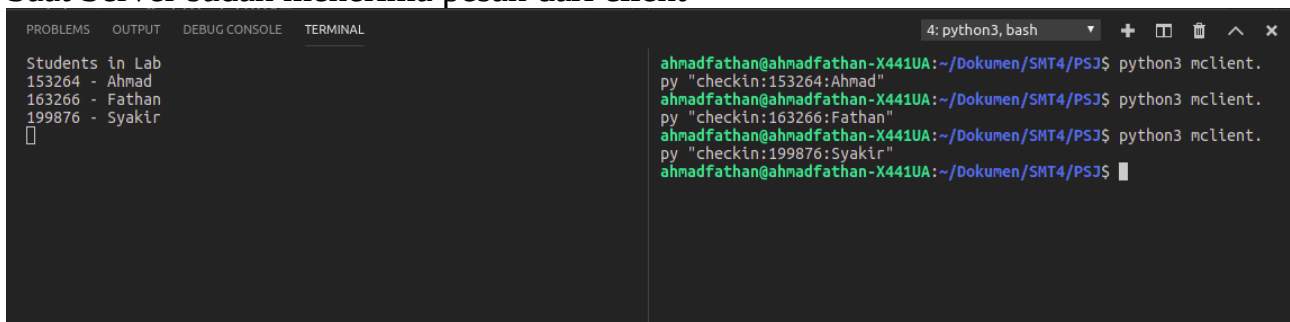
Hasil Program

Menjalankan Program



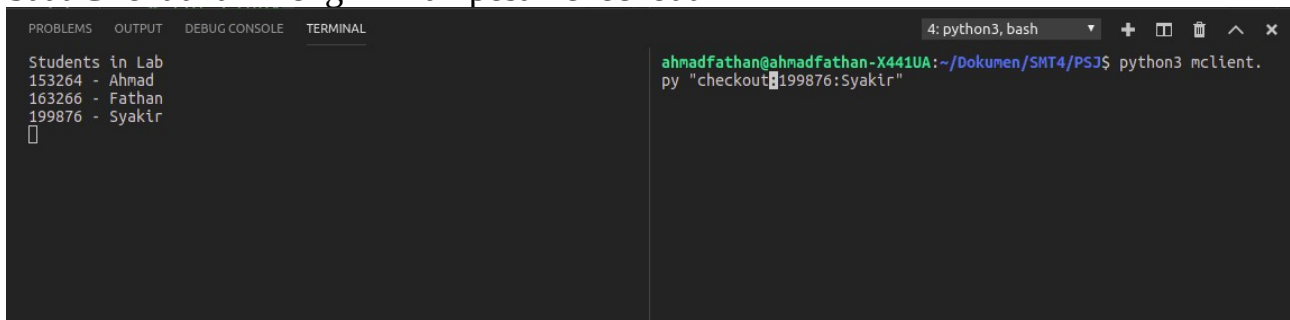
```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
ahmadfathan@ahmadfathan-X441UA:~/Dokumen/SMT4/PSJ$ python3 mserver.py
ahmadfathan@ahmadfathan-X441UA:~/Dokumen/SMT4/PSJ$ python3 mclient.py "checkin:153264:Ahmad"
```

Saat Server sudah menerima pesan dari client



```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
Students in Lab
153264 - Ahmad
163266 - Fathan
199876 - Syakir
ahmadfathan@ahmadfathan-X441UA:~/Dokumen/SMT4/PSJ$ python3 mclient.py "checkin:153264:Ahmad"
ahmadfathan@ahmadfathan-X441UA:~/Dokumen/SMT4/PSJ$ python3 mclient.py "checkin:163266:Fathan"
ahmadfathan@ahmadfathan-X441UA:~/Dokumen/SMT4/PSJ$ python3 mclient.py "checkin:199876:Syakir"
ahmadfathan@ahmadfathan-X441UA:~/Dokumen/SMT4/PSJ$
```

Saat Client akan mengirimkan pesan checkout



```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
Students in Lab
153264 - Ahmad
163266 - Fathan
199876 - Syakir
ahmadfathan@ahmadfathan-X441UA:~/Dokumen/SMT4/PSJ$ python3 mclient.py "checkout:199876:Syakir"
```

Server merespon pesan client dengan menghapus nama yang checkout



```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
Students in Lab
153264 - Ahmad
163266 - Fathan
ahmadfathan@ahmadfathan-X441UA:~/Dokumen/SMT4/PSJ$ python3 mclient.py "checkout:199876:Syakir"
ahmadfathan@ahmadfathan-X441UA:~/Dokumen/SMT4/PSJ$
```