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**Program:**

```
from socket import socket, AF_INET, SOCK_STREAM
s=socket(AF_INET, SOCK_STREAM)
s.bind(('127.0.0.1', 6157))
s.getsockname()
server= ('127.0.0.1', 8888)
s.connect(server)
data= s.recv(1024)
print (data.decode())
s.send(b"HELLO prabhulkar.s\n")

def fword(word1, num1):
    while True:
        if (word1=="MATH"):
            d1,operation,d2 = num1.split(" ")
            d1=int(d1)
            d2=int(d2)
            maths(operation, d1, d2)
            return;
        elif (word1=="DONE"):
            print("DONE")
            return;

def maths(operation, d1, d2):
    if (operation == '/'):
        answer= d1/d2;
        info= b"ANSWER " + str(answer) + b"\n"
        print(info);
        s.send(info)
        return;

    elif (operation == '*'):
        answer= d1*d2;
        info= b"ANSWER " + str(answer) + b"\n"
        print(info);
        s.send(info)

        return;

    elif (operation == '+'):
        answer= d1+d2;
```

## TELE5330- PROJECT 1

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```
        info= b"ANSWER " + str(answer) + b"\n"
        print(info);
        s.send(info)
        return;

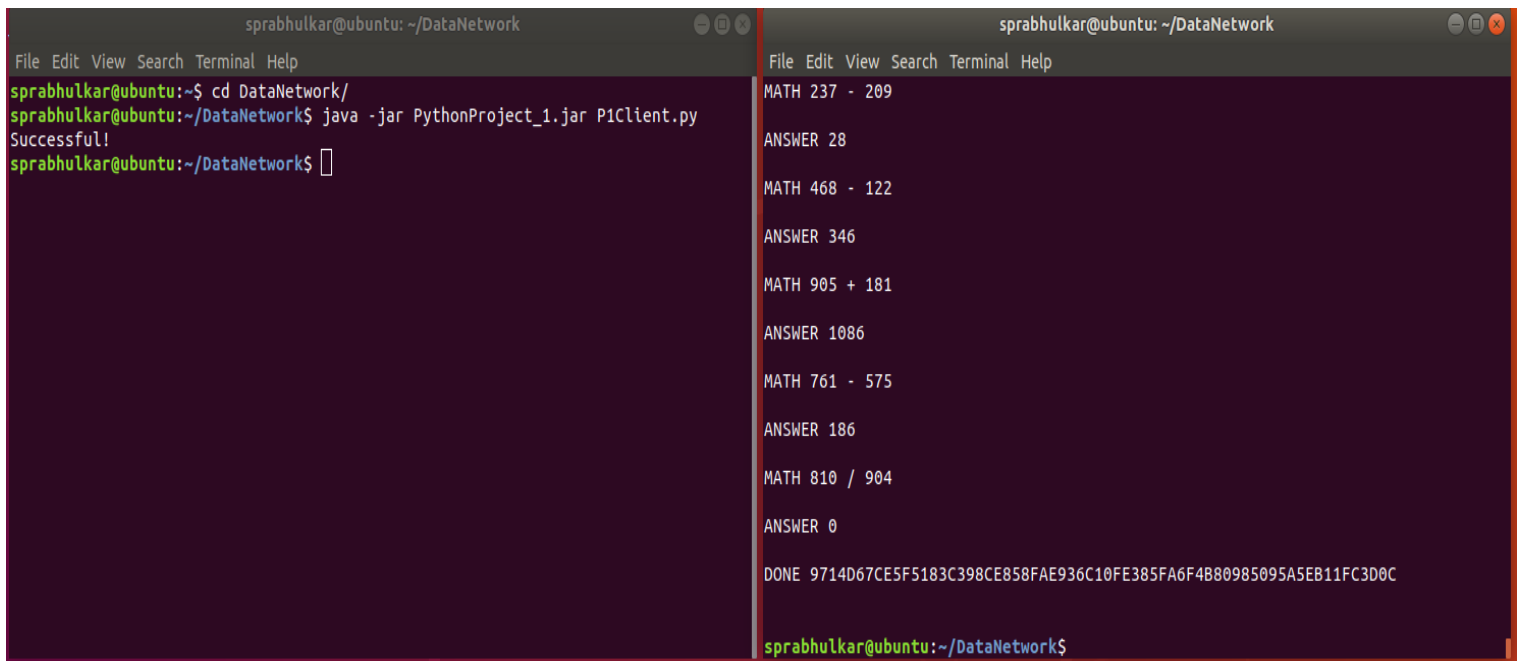
    elif (operation=='-'):
        answer= d1-d2;
        info= b"ANSWER " + str(answer) + b"\n"
        print(info);
        s.send(info)
        return;

while True:
    answ= s.recv(2024)
    print(answ.decode())
    answ= answ.decode()
    if 'DONE' in answ:
        break
    word1, num1= answ.split(" ",1)
    fword(word1, num1)

s.close()
```

### OUTPUT:

**DONE 9714D67CE5F5183C398CE858FAE936C10FE385FA6F4B80985095A5EB11FC3D0C**



```
sprabhulkar@ubuntu: ~/DataNetwork
File Edit View Search Terminal Help
sprabhulkar@ubuntu:~$ cd DataNetwork/
sprabhulkar@ubuntu:~/DataNetwork$ java -jar PythonProject_1.jar P1Client.py
Successful!
sprabhulkar@ubuntu:~/DataNetwork$

sprabhulkar@ubuntu: ~/DataNetwork
File Edit View Search Terminal Help
MATH 237 - 209
ANSWER 28
MATH 468 - 122
ANSWER 346
MATH 905 + 181
ANSWER 1086
MATH 761 - 575
ANSWER 186
MATH 810 / 904
ANSWER 0
DONE 9714D67CE5F5183C398CE858FAE936C10FE385FA6F4B80985095A5EB11FC3D0C
sprabhulkar@ubuntu:~/DataNetwork$
```