Client-Server information exchange program

**Server:**import socket

s=socket.socket()

s.bind(('localhost',9999))

s.listen()

print('Waiting for connections')

while True:

c,addr=s.accept()

f=open("data\_log.txt","a")

f.write(c.recv(1024).decode())

f.close()

c.send(bytes('Data received','utf-8'))

c.close()

**Client:**

import socket

c=socket.socket()

c.connect(('localhost',9999))

data=input('Enter data: ')

c.send(bytes(data,'utf-8'))

print(c.recv(1024).decode())

c.close()

Client-Server Calculator program

**Server:**

import socket

s=socket.socket()

s.bind(('localhost',9999))

s.listen()

print('Waiting for connections')

while True:

c,addr=s.accept()

op=c.recv(20).decode()

c.send(bytes('Enter numbers','utf-8'))

num=c.recv(25).decode()

a,b=map(int,num.split())

if(op=='Addition'): ans=a+b

elif(op=='Subtraction'):ans=a-b

elif(op=='Multiplication'):ans=a\*b

elif(op=='Division'):ans=a/b

else:ans='Invalid'

ans=str(ans)

c.send(bytes(ans,'utf-8'))

c.close()

**Client:**

import socket

c=socket.socket()

c.connect(('localhost',9999))

op=input('Enter operation (Addition, Subtraction, Multiplication, Division): ')

c.send(bytes(op,'utf-8'))

print(c.recv(25).decode(),end=": ")

num=input()

c.send(bytes(num,'utf-8'))

print("The answer is: ",c.recv(20).decode())

c.close()