Lab 3.					
Testing put client & server in different folders use different types of files for testing					
- text file that is < 1024 bytes - larger image file (~20016)					
· use scripts to reset and execute various tests.					
How do I know what command the					
Client is sending? CLIENT: 'GET fill that" -> UTF-8 encoded strug fixed - can't be anything else					
DON'T DO THIS: Client: Server					

S. send ("GET" encode ()) | cnd = s. recv(1024). decode()

S. recv() to get file size | # s.sed() filesize

5 send (filename en code(1) / filename = 5 recu(1724) devode()

```
print ("Sending GET")
                                        pr.nf ("Receiving commad")
                                        cmd = 5.re (v(---)
s. send ( --- ) filemane)
                                        print (" Received ; and)
s send ( " Sent , filener)

print ( " Waiting for file size")
                                        print ("Receiving filename")
                                        flename = 5. recv (1)-1)
                                        print ("Received", filence)
 filesize= srecu( ... )
                                        prut ( "Sending file size")
 print ("Received,", Lilesize)
                                         S. soud ( ) [ x ) print ( "Sent :", x)
  Using "verbose" flags
     python3 client py -v GET filel tat
                              1 verbose flag -> print Some
deloug statements
    verbose = "-v" in sys.a.gv
    if verbose: prut ("Sending GET")
S. send (---)
    if verbose: pr.nt("Sent GET")
      - VV -> extra no
       -VVV -> ender more
        -VVVV -> Crazzi
 if "-v" in sys, ang v: verbose = |
if "-v" in sys, ang v: verbose = |
```

ready = ready + s. recu(1024). decode("JH-8")

- works When 5:2e, of the expected
data is known

- but, when it's not (eg the command

+ ext in Lab 3), the protocol

- SHOULD give you a way of knowing that the date is complete.
- 1) send expected # bytes
 previously (eg as a 4-byte
 unsigned integer)
 - 2) if fext data, use a "sentitel" at the end -> special character or set of characters that would not appear in actual data -> most common is In -> "Line-based protocol"

nl = ord ("\n") # integer value of new line

data = S. recv(1024)

while data [-] != nl:

data = date + S. recv(1024)

cmd = date. decode ("uff-8")

- also warry about receiving file data:

while # not done :

data = s. recv(1024)

f. write (data)