import socket

import os

import time

BUFFER\_SIZE = 4096

HEADER\_SIZE = 1024

def send\_file(file\_path, ip, port, progress\_callback=None):

sock = socket.socket(socket.AF\_INET, socket.SOCK\_DGRAM)

sock.settimeout(2)

file\_name = os.path.basename(file\_path)

file\_size = os.path.getsize(file\_path)

# Send header

header = f"{file\_name}|{file\_size}".encode().ljust(HEADER\_SIZE, b'#')

sock.sendto(header, (ip, port))

time.sleep(0.1) # Give time for receiver to prepare

# Send file in chunks

sent\_bytes = 0

with open(file\_path, "rb") as f:

while True:

data = f.read(BUFFER\_SIZE)

if not data:

break

sock.sendto(data, (ip, port))

sent\_bytes += len(data)

if progress\_callback:

progress\_callback(sent\_bytes, file\_size)

sock.close()