import socket

import os

BUFFER\_SIZE = 4096

HEADER\_SIZE = 1024

def receive\_file(save\_dir, port, progress\_callback=None):

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

sock.bind(("", port))

# Receive header

header, addr = sock.recvfrom(HEADER\_SIZE)

header = header.decode().strip("#")

file\_name, file\_size = header.split("|")

file\_size = int(file\_size)

file\_path = os.path.join(save\_dir, file\_name)

received\_bytes = 0

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

while received\_bytes < file\_size:

data, \_ = sock.recvfrom(BUFFER\_SIZE)

f.write(data)

received\_bytes += len(data)

if progress\_callback:

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

sock.close()