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STAGE 1:

1. First clone the repository in your system from git using the command in cmd

git clone <https://github.com/mrtn28k/mr_tn28.git>

1. Then open the file you download and create two python code file

* Server-side code
* Client-side code

1. Now first run the server-side code:

import socket

import os

# Define the server address and port

SERVER\_HOST = '127.0.0.1' # Localhost

SERVER\_PORT = 5001 # Port to listen on

# Create a socket object

server\_socket = socket.socket(socket.AF\_INET, socket.SOCK\_STREAM)

# Bind the socket to the address and port

server\_socket.bind((SERVER\_HOST, SERVER\_PORT))

# Start listening for incoming connections

server\_socket.listen(1)

print(f"[\*] Listening as {SERVER\_HOST}:{SERVER\_PORT}...")

# Accept a connection from the client

client\_socket, address = server\_socket.accept()

print(f"[+] Connection from {address} has been established!")

# Receive the filename from the client

filename = client\_socket.recv(1024).decode()

filepath = os.path.join("C:\\Users\\Kamalesh VB\\mr\_tn28\\mr", filename)

# Create the directory if it doesn't exist

os.makedirs(os.path.dirname(filepath), exist\_ok=True)

# Open a file to write the received data

with open(filepath, 'wb') as file:

print("[\*] Receiving file...")

while True:

# Receive data in chunks

data = client\_socket.recv(1024)

if not data:

break # Break if no more data is received

file.write(data)

print("[+] File received successfully!")

client\_socket.close()

server\_socket.close()

1. Then client-side code:

import socket

import os

# Define the server address and port

SERVER\_HOST = '127.0.0.1' # Localhost

SERVER\_PORT = 5001 # Port to connect to

# Path of the file to be sent

file\_to\_send = "C:\\Users\\Kamalesh VB\\mr\_tn28\\h.py"

# Create a socket object

client\_socket = socket.socket(socket.AF\_INET, socket.SOCK\_STREAM)

# Connect to the server

client\_socket.connect((SERVER\_HOST, SERVER\_PORT))

# Send the filename first

filename = os.path.basename(file\_to\_send)

client\_socket.send(filename.encode())

# Open the file to read and send its content

with open(file\_to\_send, 'rb') as file:

print("[\*] Sending file...")

while True:

# Read data in chunks

data = file.read(1024)

if not data:

break # Break if end of file is reached

client\_socket.send(data)

print("[+] File sent successfully!")

client\_socket.close()

1. Conclusion:

The code is still in progress. Right now it is working on a file that is created in the user system.

1. Future improvement:

We can use a loop for reading the file in the repository, store in list and execute it

1. Reference:

Chatgpt code:

#SERVER-SIDE

import socket

import os

# Define the server address and port

SERVER\_HOST = '127.0.0.1' # Localhost

SERVER\_PORT = 5001 # Port to listen on

# Create a socket object

server\_socket = socket.socket(socket.AF\_INET, socket.SOCK\_STREAM)

# Bind the socket to the address and port

server\_socket.bind((SERVER\_HOST, SERVER\_PORT))

# Start listening for incoming connections

server\_socket.listen(1)

print(f"[\*] Listening as {SERVER\_HOST}:{SERVER\_PORT}...")

# Accept a connection from the client

client\_socket, address = server\_socket.accept()

print(f"[+] Connection from {address} has been established!")

# Receive the filename from the client

filename = client\_socket.recv(1024).decode()

filepath = os.path.join("C:\\Users\\Kamalesh VB\\mr\_tn28\\mr", filename)

# Create the directory if it doesn't exist

os.makedirs(os.path.dirname(filepath), exist\_ok=True)

# Open a file to write the received data

with open(filepath, 'wb') as file:

print("[\*] Receiving file...")

while True:

# Receive data in chunks

data = client\_socket.recv(1024)

if not data:

break # Break if no more data is received

file.write(data)

print("[+] File received successfully!")

client\_socket.close()

server\_socket.close()

#CLIENT-SIDE CODE

import socket

import os

# Define the server address and port

SERVER\_HOST = '127.0.0.1' # Localhost

SERVER\_PORT = 5001 # Port to connect to

# Path of the file to be sent

file\_to\_send = "C:\\Users\\Kamalesh VB\\mr\_tn28\\h.py"

# Create a socket object

client\_socket = socket.socket(socket.AF\_INET, socket.SOCK\_STREAM)

# Connect to the server

client\_socket.connect((SERVER\_HOST, SERVER\_PORT))

# Send the filename first

filename = os.path.basename(file\_to\_send)

client\_socket.send(filename.encode())

# Open the file to read and send its content

with open(file\_to\_send, 'rb') as file:

print("[\*] Sending file...")

while True:

# Read data in chunks

data = file.read(1024)

if not data:

break # Break if end of file is reached

client\_socket.send(data)

print("[+] File sent successfully!")

client\_socket.close()