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**Subject: Computer Network**

**Assignment 6**

**Title:-** Write a program using TCP socket for wired network for following

* Say Hello to Each other.
* File transfer.

**Code:- Server.py**

import socket

# Initialize Socket Instance sock = socket.socket()

print ("Socket created successfully.")

# Defining port and host port = 8800 host = ''

# binding to the host and port

sock.bind((host, port))

# Accepts up to 10 connections sock.listen(10)

print('Socket is listening...')

while True:

# Establish connection with the clients. con, addr = sock.accept()

print('Connected with ', addr)

# Get data from the client data = con.recv(1024) print(data.decode()) # Read File in binary file = open('server-file.txt', 'rb') line = file.read(1024)

# Keep sending data to the client

while(line): con.send(line)

line = file.read(1024)

file.close()

print('File has been transferred successfully.')

con.close()

**Client.py**

import socket

# Initialize Socket Instance sock = socket.socket()

print ("Socket created successfully.")

# Defining port and host port = 8800

host = 'localhost'

# Connect socket to the host and port sock.connect((host, port)) print('Connection Established.') # Send a greeting to the server

sock.send('A message from the client'.encode())

# Write File in binary

file = open('client-file.txt', 'wb')

# Keep receiving data from the server

line = sock.recv(1024)

while(line): file.write(line)

line = sock.recv(1024)

print('File has been received successfully.')

file.close() sock.close() print('Connection Closed.')

**OUTPUT**

