Assignment 1

File Transfer Protocol

Team Members

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Client Source Code:

```python
import socket                   # Import socket module

s = socket.socket()             # Create a socket object
host = socket.gethostname()     # Get local machine name
port = 6969                    # Reserve a port for your service.

s.connect((host, port))
s.send(b'1001')

with open('receivedfile', 'ab') as f:
    print('file opened')
    while True:
        print('receiving data...')
        data = s.recv(1024)
        print('data=%s', (data))
        if not data:
            break
        # write data to a file
        f.write(data)

f.close()
print('Successfully get the file')
s.close()
print('connection closed')
```

Server Source Code:

```python
# server.py

import socket                   # Import socket module

port = 6969                    # Reserve a port for your service.
s = socket.socket()             # Create a socket object
host = socket.gethostname()     # Get local machine name
s.bind((host, port))            # Bind to the port
s.listen(1)                     # Now wait for client connection.

print('Server listening....')

while True:
    conn, addr = s.accept()     # Establish connection with client.
    print('Got connection from', addr)
    data = conn.recv(1024)
    print('Server received', repr(data))

    filename='mytext.txt'
    f = open(filename,'rb')
    l = f.readlines()
   #  conn.send(l)
    for line in l:
       conn.send(line)
       print('Sent ',repr(l))
      #  l = f.read(1024)
    f.close()

    print('Done sending')
    conn.send(bytes('thank u for connecting\n\n\n', 'ascii'))
    conn.close()
```