ENSF 462 lab 3

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from socket import *
import sys
if len(sys.argv) <= 1:
     'Usage: "python ProxyServer.py server_ip"\n[server_ip: IP Address Of Proxy Server')
  sys.exit(2)
tcpSerSock = socket(AF_INET, SOCK_STREAM)
tcpSerSock.bind(('10.9.132.111', 8888))
tcpSerSock.listen(5)
requested_files = {}
while True:
  print('Ready to serve...')
  tcpCliSock, address = tcpSerSock.accept()
  print('Received a connection from:', address)
  message = tcpCliSock.recv(1024).decode()
  print(message)
  filename = message.split()[1].partition("/")[2]
  print(filename)
  file_in_use = "/" + filename
  if file_in_use not in requested_files:
```

```
connection = socket(AF_INET, SOCK_STREAM)
  hostname = filename.replace("www.", "", 1)
  print(hostname)
  connection.connect((hostname, 80))
  fileobj = connection.makefile('r', 0)
  fileobj.write(f"GET /{filename} HTTP/1.0\n\n")
  buffer = fileobj.readlines()
  temp_File = open(file_in_use, "wb")
  for data in buffer:
     temp_File.write(data.encode())
     tcpCliSock.send(data.encode())
  requested_files[file_in_use] = True
except Exception as e:
  print("Error: ", e)
f = open(file_in_use[1:], "r")
outputdata = f.readlines()
tcpCliSock.send("HTTP/1.0 200 OK\r\n")
tcpCliSock.send("Content-Type: text/html\r\n")
for i in range(len(outputdata)):
  tcpCliSock.send(outputdata[i].encode())
print('Read from cache')
```

except IOError:

pass

Close the client and the server sockets

tcpCliSock.close()

