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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(('10.9.190.34', 8888))
tcpSerSock.listen(5)
requested_files = {}
while True:
  print('Ready to serve...')
  tcpCliSock, addr = tcpSerSock.accept()
  print('Received a connection from:', addr)
  message = tcpCliSock.recv(1024).decode() # Receive data from the client
  print(message)
  filename = message.split()[1].partition("/")[2]
  print(filename)
  filetouse = "/" + filename
  if filetouse not in requested_files:
       c = socket(AF_INET, SOCK_STREAM)
       hostn = filename.replace("www.", "", 1)
       print(hostn)
```

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c.connect((hostn, 80))
  fileobj = c.makefile('r', 0)
  fileobj.write(f"GET /{filename} HTTP/1.0\n\n")
  buffer = fileobj.readlines()
  tmpFile = open(filetouse, "wb")
  for data in buffer:
     tmpFile.write(data.encode())
     tcpCliSock.send(data.encode())
  requested_files[filetouse] = True
except Exception as e:
  print("Error: ", e)
f = open(filetouse[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')
pass
```

