Webserver Lab

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#!/usr/bin/env python3
#import socket module
from socket import *
import sys # In order to terminate the program
serverSocket = socket(AF INET, SOCK STREAM)
#Prepare a sever socket
#Fill in start
serverPort = 8000
serverSocket.bind((", serverPort))
serverSocket.listen(1)
print('Server is up on port '+str(serverPort))
#Fill in end
while True:
#Establish the connection
   #Fill in start
  connectionSocket, addr = serverSocket.accept()
  print('Ready to serve...')
  #Fill in entry:
  try:
    message = connectionSocket.recv(1024)
     #Fill in start
     #Fill in end
    filename = message.split()[1]
    f = open(filename[1:])
    outputdata = f.read()
    toSendData=b"
    f.close()
     #Fill in end
    #Send one HTTP header line into socket
    #Fill in start
    #Fill in end
    #Send the content of the requested file to the client
    print(outputdata)
    connectionSocket.send("HTTP/1.1 200 OK\r\n\r\n".encode())
    for i in range(0, len(outputdata)):
       connectionSocket.send(outputdata[i].encode())
    connectionSocket.send("\r\n".encode())
    connectionSocket.close()
    print('File received')
  except IOError:
    print('ERR: File not found.')
    connectionSocket.send(b'\n404 File Not Found\n')
    connectionSocket.close()
```

connectionSocket.close()
serverSocket.close()
sys.exit()

