

Socket Programming Assignment 3 – Web Server

Code

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#CSC 138 assignment 2
#import socket module
from socket import *
import sys
portNumber = 9732
serverSocket = socket(AF_INET, SOCK_STREAM)
#Prepare a sever socket
serverSocket.bind(('', portNumber))
serverSocket.listen(5)
while True:
    #Establish the connection
    print('Ready to serve...')
    connectionSocket, addr = serverSocket.accept()
    try:
        message = connectionSocket.recv(1024)
        filename = message.split()[1]
        f = open(filename[1:])
        outputdata = f.read()
        #Send one HTTP header line into socket
        print 'sending HTTP OK response'
        connectionSocket.send('HTTP/1.1 200 OK\r\n\r\n')
        #Send the content of the requested file to the client
        print 'Sending data'
        for i in range(0, len(outputdata)):
            connectionSocket.send(outputdata[i].encode())
        connectionSocket.send("\r\n".encode())
        connectionSocket.close()
    except IOError:
        #Send response message for file not found
        connectionSocket.send('HTTP/1.1 404 Not Found\r\n\r\n')
        #Close client socket
        connectionSocket.close()
serverSocket.close()
sys.exit()#Terminate the program after sending the corresponding data
```

Output

