

```
1 import numpy as np
2 import socket
3 import select
4 import threading
5 import os
6 import glob
7 import sys
8 global status
9 global s
10 global listOfImages
11 global sentIMG
12 global address
13 global clientNumber
14 global clientOrder
15 import cv2
16 import timeit
17
18 def testBending(_socket,_host,_port):
19     try:
20         _socket.bind((_host,_port))
21         return True
22     except:
23         return False
24 def RetrFile():
25     sentIMG=0
26     clientOrder=["First","Second"]
27     clientNumber=0
28     position=0
29     host = "192.168.1.2"
30     port=5050
31     s=socket.socket(socket.AF_INET,socket.SOCK_STREAM)
32     s.setsockopt(socket.SOL_SOCKET, socket.SO_REUSEADDR, 1)
33     _OK=testBending(s,host,port)
34     while(not _OK):
35         _OK=testBending(s,host,port)
36         print "Ooops! Seems to have Error in binding...."
37     while(True):
38         listOfImages=os.listdir("images")
39         if (1):
40             try:
41                 for file in listOfImages:
42                     if (file.endswith(".png") or file.endswith(".jpg") or
43                         file.endswith(".bmp")):
44                         print str(listOfImages)
45                         s.listen(5)
46                         c,addr=s.accept()
47                         sock=c
48                         print "Sending "+str(file)+" To " + clientOrder
49                         [clientNumber]+" Client..."
50                         status=sock.recv(1024)
51                         print str(status)
52                         if status=="Ready":
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51
52         print(file)
53         start_time = timeit.default_timer()
54         cv2.waitKey(100)
55
56         filesize=long(os.path.getsize("images/"+str(file)))
57         if (filesize<100000 ):
58             sock.send("0"+str(filesize))
59         else:
60             sock.send(str(filesize))
61
62
63
64         with open("images/"+str(file) ,'rb') as f:
65             bytesToSend=f.read(filesize)
66             sock.sendall(bytesToSend)
67
68         print "*****"
69
70         bytesToSend=None
71         data=None
72         f.close()
73
74         f=None
75         status=None
76
77         select.select([sock],[],[],0.05)
78
79         select.select([s],[],[],0.05)
80
81
82         print str(file) +'Successfully Sent!'
83         os.remove("images/"+str(file))
84         sentIMG=sentIMG+1
85         if(sentIMG==10):
86
87             elapsed =
88             timeit.default_timer() - start_time
89
90             print "TIME =
91             "+str(elapsed)
92
93
94         clientNumber=clientNumber+1
95         if (clientNumber>1):
96             clientNumber=0
97         else:
98             print "Not ready Second"
99
100 except Exception as e:
101     print "UnKonwn Exception "
102     print sys.exc_info()[0]

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```
99         print sys.exc_info()[1]
100         print sys.exc_info()[2]
101     else:
102         print "NO NEW PHOTOES TAKEN..."
103         print str(NFA)
104         print "*****"
105         print str(NFB)
106         continue
107     sock.close()
108     sock=None
109     host=''
110     port=None
111 def Main():
112
113     t=threading.Thread(target=RetrFile)
114     t.start()
115 if __name__ == "__main__":
116     Main()
117
118
119
```