**Server.py**

import socket

s=socket.socket()

host = socket.gethostname()

port=12345

s.bind((host, port))

s.listen(5)

while True:

c, addr = s.accept()

print('Got connection from',addr)

while True:

bs = c.recv(1024).decode()

print(bs)

for i in bs.split():

if '111110' in i:

bs=bs.replace('111110','11111')

uts=''

for i in bs.split():

if i=='10100011':

uts+='ESC '

elif i=='01111110':

uts+='FLAG '

else:

uts+=chr(int(i,2))+' '

uts=uts.replace('ESC FLAG','FLAG')

uts=uts.replace('ESC ESC','ESC')

uts=uts.strip(' ')

print(uts)

k="Done"

c.send(k.encode())

break

s.close()

**Client.py**

import socket

c=socket.socket()

host=socket.gethostname()

port=12345

print(host)

c.connect((host,port))

while(1):

s=input()

ss=''

for i in s.split(' '):

if i=='ESC':

ss+='ESC ESC '

elif i=='FLAG':

ss+='ESC FLAG '

else:

ss+=i+' '

bs=''

for i in ss.split():

if i=='ESC':

bs+='10100011 '

elif i=='FLAG':

bs+='01111110 '

elif ord(i)>=65 and ord(i)<=90:

#print(bin(ord(i))[2:])

bs+=format(int(bin(ord(i))[2:]),'#0008')+' '

bs=bs.strip(' ')

print(bs)

for i in bs.split():

if '11111' in i:

#print(i)

bs=bs.replace('11111','111110')

print(bs)

c.send(bs.encode())

s\_msg=c.recv(1024).decode()

print(s\_msg)

if(s\_msg=="Done"):

print("Connection end")

break

c.close()

**Output:**



