Class – TE B

PL 3

Title – Setting IP Address

Input –

#network ip

#!/usr/bin/python

import socket, struct, fcntl

import ftplib

IP\_ADDR = "192.168.0.125"

SERVER\_IP = "192.168.0.20"

SERVER\_USER = "ACER"

SERVER\_USER\_PWD = ""

FILE\_TO\_SEND = "b.c"

SEND\_CMD = "STOR "

SIOCSIFADDR = 0x8916

SIOCGIFADDR = 0x8915

sock = socket.socket(socket.AF\_INET, socket.SOCK\_STREAM)

def setIpAddr(iface, ip):

bin\_ip = socket.inet\_aton(ip)

ifreq = struct.pack('16sH2s4s8s', iface, socket.AF\_INET, '\x00'\*2, bin\_ip, '\x00'\*8)

fcntl.ioctl(sock, SIOCSIFADDR, ifreq)

return

def getIpAddr(iface = 'eth0'):

ifreq = struct.pack('16sH14s', iface, socket.AF\_INET, '\x00'\*14)

try:

res = fcntl.ioctl(sock, SIOCGIFADDR, ifreq)

except:

return None

ip = struct.unpack('16sH2x4s8x', res)[2]

return socket.inet\_ntoa(ip)

print "Current IP Address: %s" % getIpAddr('eth0')

print "Setting IP to: %s" % IP\_ADDR

setIpAddr('eth0', IP\_ADDR)

print "New IP Address: %s" % getIpAddr('eth0')

try:

print "\nUploading a File on Server [%s]" %SERVER\_IP

print "Sending a File (%s)......." % (FILE\_TO\_SEND),

session = ftplib.FTP(SERVER\_IP, SERVER\_USER, SERVER\_USER\_PWD)

file = open(FILE\_TO\_SEND,'rb') # file to send

session.storbinary(SEND\_CMD + FILE\_TO\_SEND, file) # send the file

file.close() # close file and FTP

session.quit()

print "Done"

except:

print "Error Communicating to Server !!!"