

28/12/2020
Monday

Computer Networks
Lab test - 2

Arjun A.S
IBM18C3019
CSE - 5A
A1 batch

Program - 3

~~Cyclic Redundancy Check~~ :-

UDP Socket Programming: Server

Python UDP socket programming [Server]

import socket # library to perform socket

s = socket.socket(socket.AF_INET, socket.SOCK_DGRAM) # creating socket
port = 1028

s.bind(('192.168.8.1', 1028)) # server listens at this
socket address

print("Server is up & listening")

while True:

~~s.recvfrom(1024)~~

~~s.recvfrom(1024)~~

msg, addr = s.recvfrom(1024) # receive from
buffer [from client]

try:
with open(msg, "r") as fd:

contents = fd.read()
print("Request processed")

except:

contents = "File cannot be found."

print("Request cannot be processed")

s.sendto(^{contents}~~msg~~, addr)

send to the client.

print("Response sent")

Arjun A.S

UDP Socket programming : (client)


```
import socket


s = socket.socket(socket.AF_INET, socket.SOCK_DGRAM)
addr = ('192.168.8.1', 1028)
print('Enter Filename : ')
request = input()

s.sendto(request, addr) # send the request to client

s.recvfrom(2048)
response, server_addr = s.recvfrom(2048) # receive response
print(f'Response received from {server_addr}')
print(response)
```

In this program

Server

 192.168.8.1
 (1028)

client

 192.168.8.101
 (ephemeral)

These pc are connected to a network (LAN) with
 network id : 192.168.8.0/24.

Socket address is combination of port address & ip address.