20/1/24 Almoholo IP Configuration Aim:-Study of Network Commands used in Linux and windows Basic Networking Commands: - Te Coutung Franks (i) arp -aohi... belden = pxoi9 zmin Interfaco: 192.168.72.1...0x3 Ethornat adopter Ethornet: Internet Address Physical Address 101 Type Bealton Pous Retipus nothings of 00-50-56-24-37-03 192.168.72.5.24 H-H-H-H-H-H Static 01-00-50-00-00-02 static 192.168.12 .255 224.0.0.2 01-00- 52-00-00-16 3/static 224,0,0,22 150013-00-52-00-00-fb static 224.0.0,251 01-00-50-00-fc static 01 -00-52-tf-famgfatic 224 .0.0.252 239.258.255-256 H-H-H-H-H-H RECHIC 2万万, 2万万, 2万万, 2万万 (H) notstar -a is (ii) host name no It it displays name of computer DESKTOP - MATHITT USING ANGILLERING 112] [Austobess A.] [somold stomospy]] THISTELL

Bractical -1

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(3) IPconfig /all
               1 + 1051/2012
  Windows IP Configuration
+ Hostname man : DESKTOP - MATHITT
     Purmary Drs Suffix ... : bao sound
      Node Type in : Mixed product of stand
      WINS Proxy Enabled ....: No gro (1)
 Ethernet adapter Ethernet:
    connection - specific DNs Suffix:
    Description _ -- - : Realtox PCIa GIBE
 00-50-56-e4-31-03 dynamic
 21th Physical Address....
  DHCP Enabled -50
    Luto Configuration - Enabled -.... Ves
 00-10-00-00-tc startic
Jimk -Local IPV6 Addrea: ..... fe80: bc8c: 9910: dod
255.256.256.256 H-H-H-H-H-H-T-H-H-
                          On day : 09 tax 161 Prefer
(4) nbtstat -a
  Displays protocol statutice and currend TCP/10
Connections using NBT HAM - 9011830
  NBTSTAT [[-9 Remote Name][-A Traddresa][-c][-n]
        [-r] [-R] [-R] [-s] [-s] [intera]]
```

```
(F) nerstar
                                                                                         The state of the s
Activate Connections
Proto Local Address Foreign Address state
 TCP 110- CH 5 SC-In-H88: 5228 ESTABLISH
                                                                          10m 112, 16 8-112
                                                                                                            &-In-fist: 5228 ESTABLIKI
   TCP 142.16.8.112:50201
                                                                                                                     mont right
 TCP
                                            17 2. 16:8.112:50203 023-11-215-81:hHs LAST_A
 TCP
     Packet > Sat=4, December - Lost = O(O/los)
  (b) nislookapin is sunt quet brush strukough
             Manual = Ons , maximum = ons Average ones
    Default Server: Unknown
      Address: 172.16.8.1
                                                                                                                                           (8) Houke
      > www. google.com
                 Seiver : Unknown hourson wholeginall
      no Addrew D: H2: 16.8.1 ] [4] [4] [4] [4]
      Non -authoritative anxwer:
              Name: www, google.com
               Addresses: 2404:6800:4007:812::2004
                                                   142.250.183.228
      (1) pathping
            Usaga: pathping[-g host-list] [-h maximun-hops]
                          [i address] [-n] [-p period] [-q non-queries]
```

[-w timeout] [-4] [-6] tauget-name

(7) Ping 172.16.8.112 lasages Pinging 172.168.112 with 82 butes of data: Stote Reply from 172.16.8.112: bytes=32 times Lins TIL=128 Peply from 1+12.16.8.112 + byter=32 +cmes 4MSTTL=128 12 eply from 170. 16.8.112 - byter=32 times LIMSTIZ=13 172.16.8.112 - byter= 32 times Lims TIZ=128 Reply from Ping statistics for trz.16.8.112: Packeti: Set=4, Received=4. lost=0(0/loss) Approximate round trup times in neilli-solonds: MIMMUN = Oms, Maximum = oms, Average oms. Actors : 172-16.8-1 (8) noute MOD- elpoop . WWW < Manipulates network routing Tables Route [-f][-P] [-4][-6] Comand [datination] [mask netmask] [gateway ] [metric melie] [IF (nterfected), www. mou Address of: 25,04: 6800 4001:810: 2004 

Bought (1-)

oralhost local domain (0.000) (1) IP And Mable Batters 10 ip address show Fathern Range 1: 10: LloapBack, UP, Lower\_UP > mtu brinsb adisc noqueue state unknown group défault glon 1000 link (loophark 00:00:00:00:00 bid 00:00:60:00:00:00 inet 127.0.0,1/8 Scopeshost-looms sui Valid - 14t torones preferred - 4t torones net 6:1/128 Slope host ods Epilarevel.

Valid- Ift foreva preferred lift forevel. enpaso: plags= 4163 LUP, BROADCAST, 2) if config ton total pit of old Pauninus Multicast> mdu Inoo ENFORCE 8 H- STED INEt 142.16.8-94 netmousk 255.256.25 broadcart 172,16,11,255 Lo: flags 2873 LUPP, LOUPBACK, 12UNNING off-0019 | All m no inet 0127,0.0.1 netmark 255-0.6.0 (S) ous so distret 6:1 Prefixler 128 school ox WXP350: flags = 4099 CUP, Broadcast. Multicont 7 mtu 1500 e the 20.cd. (4:24:48:Cb

Some Basic Commande for linux: 10) speop vin

3) Mtr 9009 le communicat sonoranos sus se smoto localhost. local domain (0.0.0.0) Ping Pabl t Pattern: 0 Pattern Range: 0(0x00)-25510xff) LO Thirds I todo back up, lowerup > mis on nist galisc 2) static -410. 229.249 - tataideo (in a) 3) 142.2509171620902 8/100.751 4) 142.25 R127,215 5) 142.250,288.1 6) Mada, 105512 - 10-414. 12100, not) Ping: PHOOLEC PINU Google. Com (216 = F8, 200.142) 16 (84) byte of 60 Datestantion man onsio-in fiq. le. 100. net

(216. 48-200-142) 100000 110 110 110 110 110 26F 1cmp-seq=1 FF12=120 tone: 3:31 ms obabas durante of rom mado 5,510 - in £14.12100.16 Swin Okuz object bytes from maav. (216.58-200.142). 1cmp, - seq = 2 ++1 =120 + cme+3:51 ms TO +1401 - 60:00 - 104+0Muchability of a host machine from your device

Ping 1 host name>

- 2) Which command coill be give the details of hops taken by a packet to much it destination trace noute shostname>
- 3) Which command display the Ip configuration of Gour machine
  - 4) Which commands displays the TCP port status in your Machine netstat
- F) Wente the modify the Ip configuration (
  linux machine

  > log in as a spot case and start termina

  > input "if config" command prompt

  -> input "if config" followed by the retwork
  interface and your new Ip address

  -> Press "Enter".

Result:- Thus the Network Basic commanche of

Visholous & long au etudied.