-1. Ray huram

original datagrom - 5000 bytes

- Data within = 4980 bytes

20 byter for P headers

MTU = 1420 bytes

- max nota = 1400 bytes (20 bytes header)

1400 - is a multiplie of 8

length = 1420 10 = 105 | frog flog = 1 | off set = 6

length = 1420 | 10 = 105 | frag flag = 1 | OFF set = 175

Trength = 1426 | 10 = 105 | trag flog = 1 | of Fed = 356

[1019-15 = 746 | 10=105 | frog flog = 0 | 0 FF set = 525 |

total = 5000

(i) Given that two interfaces x and y

IF address of x-148.76.3819 Y= 153. 521786

5. pes a home

3 - ×

2 - 1

All PCS are connected to meb serier - 128. 119.40.50 (post so)

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```
Home Network -192 163-1-0/24
```

2 public or WAN IP are the inter-faces - and for each home network IP, each WAN IP will be mapped

Home retwork may access different webpage using different source ports

Assume random assignment of address in home retail

192. 163 1.1 - 43.163.1.82

192 163 - 1.33 - 192.163.1.64

192 163 - 1.65 - 192 . 163 . 1.96

P2 .163, 1.91 -197 163, 1.128

· Rondom assignment working the range of 193.163.1.0/4

(Network address translation)

At interface

148.76.38.19 of port no 5001

-> 192.163.1.32,3201

148.76.38.19 eg port no 5001 - 192163.1.64, 3632002

Csome other web page)

148.14 38.19 eg port 120500,

-> KZ 163 . [.90.320]

(source / some other well)

Y. Raghuran

1+359

At interface 4 173.52.17.80,2000 -> 192.163.1.125,3204

13 - 51 17.30 rlool -

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```
(1) so bytes of data energy som sec
        -) gets encapulated in ter segment and them in
                    I p deda form
    [20. bytes header (CCP)] + 20 tape, header (nota gram) + 50
                                  bytes data]
              = 90 bytos
                                                     Y Roy huram
                                                       17359
  over head = 40/90 ×100 = 44.44.
   application data =50/90 =55.55%
5.) pota gram length = 3820 bytes xp header 20 bytes
                          38 20 bytes -data within
          1-176 -1400 bytes
               1380 - biter - dua within
                     20 byter - header
             1380 nearleast & malliple = 1376
              length = 1396 /20=1 1-freg flog = 1 loffer
               longth = 1396 | 20=x 1 fog flag = 1 | off set = 172)
             Trength - 1024 / 10=x / frog flocy = 0 offreet say
            -total = 3820
```

total \$3 fragments are created