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1 "C:\Program Files\Java\jdk-16.0.2\bin\java.exe" "-
  javaagent:C:\Program Files\JetBrains\IntelliJ IDEA
  Community Edition 2021.2\lib\idea_rt.jar=52200:C:\
  Program Files\JetBrains\IntelliJ IDEA Community
  Edition 2021.2\bin" -Dfile.encoding=UTF-8 -classpath
  "C:\java col\DCN\out\production\DCN" com.company.
  Assignment1_20CS028
2 =====
3 =      Made By :-YASH KOLADIYA      =
4 =      Roll No :- 20CS028           =
5 = If you don't want to work with file then you =
6 = can also use the class 'PhysicalLayer' Made By =
7 = Me .. And You can also explore all functions =
8 = Also Individual classes are there for each =
9 = layer such as Eth.,Network,TCP....Just Explore
10 =====
11 --> Enter The File That You Want To Scan :
12 C:\Users\Admin\Downloads\Sample.txt
13 --> There are more 5 Lines Detected In Your File!,
    Please Spesify For How Many Lines You Want To See
    Output!
14 --> Enter Liines : 3
15
16 ===== OUTPUT
    FOR LINE 0
    =====
17 -----
    Ethernet Header Info
    -----
18 Destination MAC address : 00:1a:8c:6b:76:ac
19 Source MAC address : e8:d8:d1:46:f3:f1
20 Type : 0800
21 -----
    -----
    -----
22 -----
    Network Header Info
    -----
23 Version : 4
24 IHL : 5
25 DSCP : 00

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26 ECN : 0
27 Total Length : 00028
28 Identification : 15bd
29 Flags : 1
30 Fragment Offset : 00
31 Time To Live : 80
32 Protocol : 06
33 Header Checksum : 0000
34 Source IP : ac100c7b
35 Destination IP : 8efab74e
36 Options : c57301bb
37 -----
   -----
   -----
38 -----
   Transport Header Info
   -----
39 Source Port : 49ef
40 Destination Port : 7d1a
41 Sequence Number : f2081a27
42 Acknowledgement Number : 5010100a
43 Header Length : f
44 Reserved Bits : ee
45 URG : 1
46 ACK : 0
47 PSH : 1
48 RST : 1
49 SYN : 1
50 FIN : 0
51 Window Size : 00000
52 -----
   -----
   -----
53 =====
   =====
   =
54
55
56
57 ===== OUTPUT
   FOR LINE 1
```

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57  =====
58  -----
   Ethernet Header Info
   -----
59 Destination MAC address :  e8:d8:d1:46:f3:f1
60 Source MAC address :  00:1a:8c:6b:76:ac
61 Type :  0800
62  -----
   -----
63  -----
   Network Header Info
   -----
64 Version :  4
65 IHL :  5
66 DSCP :  00
67 ECN :  0
68 Total Length :  00028
69 Identification :  bfd2
70 Flags :  1
71 Fragment Offset :  00
72 Time To Live :  40
73 Protocol :  06
74 Header Checksum :  ced0
75 Source IP :  673b8c66
76 Destination IP :  ac100c7b
77 Options :  01bbf2c8
78  -----
   -----
79  -----
   Transport Header Info
   -----
80 Source Port :  3110
81 Destination Port :  05e0
82 Sequence Number :  e400429a
83 Acknowledgement Number :  501000fb
84 Header Length :  b
85 Reserved Bits :  00
86 URG :  0
87 ACK :  1

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88 PSH : 1
89 RST : 1
90 SYN : 0
91 FIN : 1
92 Window Size : 10000
93 -----
-----
-----
94 =====
=====
===
95
96
97
98 =====
OUTPUT FOR LINE 2
=====
99 -----
Ethernet Header Info
-----
100 Destination MAC address : e8:d8:d1:46:f3:f1
101 Source MAC address : 00:50:56:ab:f2:67
102 Type : 0800
103 -----
-----
-----
104 -----
Network Header Info
-----
105 Version : 4
106 IHL : 5
107 DSCP : 00
108 ECN : 0
109 Total Length : 00028
110 Identification : 2159
111 Flags : 0
112 Fragment Offset : 00
113 Time To Live : 80
114 Protocol : 11
115 Header Checksum : a989
116 Source IP : ac100b47

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117 Destination IP :  ac100c7b
118 Options :  e7200d3d
119 -----
-----
-----
120 -----
    Transport Header Info
    -----
121 Source Port :  0014
122 Destination Port :  8d3f
123 Sequence Number :  f48005e7
124 Acknowledgement Number :  04000004
125 Header Length :  0
126 Reserved Bits :  00
127 URG :  0
128 ACK :  0
129 PSH :  0
130 RST :  0
131 SYN :  0
132 FIN :  1
133 Window Size :  10fd9
134 -----
-----
-----
135 =====
=====
=====
136
137
138
139 Process finished with exit code 0
140
```