

README For Packet Analyzer

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Steps to Compile And Run application

1. **Unzip** pktanalyzer.zip to local machine.

2. **Compile : javac *.java**

This will make ".class" files of every ".java" file in the folder.

E.g. pktanalyzer.class, icmp.class, ip.class, etc.

NOTE:

Here the file **packetanalyzer.java** is the file containing "main" method.

3. **Execute the code:**

java pktanalyzer /absolute_path_to_bin_files/

E.g. java pktanalyzer /User/bhaarat/Documents/Project1/tcp.bin

NOTE:

If the path to file contains folder with name having space in between then an escape character '\' must be used to successfully run the program.

E.g. /Users/bhaarat/Documents/Project\ 1/tcp.bin

4. Screenshot to Compile and Run program

```
Bhaarat-MacBook-Pro:src bhaarat$ javac *.java
Bhaarat-MacBook-Pro:src bhaarat$ ls -l
total 144
-rw-r--r--  1 bhaarat  staff  1224 Sep  8 09:55 .txt
-rw-r--r--  1 bhaarat  staff  1789 Sep  8 10:06 ethernet.class
-rw-r--r--  1 bhaarat  staff  1762 Sep  8 09:57 ethernet.java
-rw-r--r--  1 bhaarat  staff  2180 Sep  8 10:06 icmp.class
-rw-r--r--  1 bhaarat  staff  2247 Sep  8 09:57 icmp.java
-rw-r--r--  1 bhaarat  staff  5554 Sep  8 10:06 ip.class
-rw-r--r--  1 bhaarat  staff  9904 Sep  8 09:57 ip.java
-rw-r--r--  1 bhaarat  staff  2153 Sep  8 10:06 pktanalyzer.class
-rw-r--r--  1 bhaarat  staff  2061 Sep  8 10:04 pktanalyzer.java
-rw-r--r--  1 bhaarat  staff  4326 Sep  8 10:06 tcp.class
-rw-r--r--  1 bhaarat  staff  7585 Sep  8 09:57 tcp.java
-rw-r--r--  1 bhaarat  staff  2101 Sep  8 10:06 udp.class
-rw-r--r--  1 bhaarat  staff  2956 Sep  8 09:57 udp.java
Bhaarat-MacBook-Pro:src bhaarat$ java pktanalyzer /Users/bhaarat/Documents/Fall\ 2017/FCN_651/Project1/tcp.bin
ETHER:  ----- Ether Header -----
ETHER:
ETHER:  Packet Size   = 266 bytes
ETHER:  Destination   = 00:00:0c:07:ac:01,
ETHER:  Source        = c0:14:3d:d5:72:8b,
ETHER:  Ethertype      = 0800 (IP)
ETHER:
IP:  ----- IP Header -----
IP:  Version = 4
IP:  Header length = 20
IP:  DSCP (6 bits) = 0x0
IP:  000000.. = Best effort
IP:  ECN (2 bits) = 0x00
IP:  .....00 = Non ECT
IP:  Total length = 252 bytes
IP:  Identification = 0x7eec (32492)
```

Step 2 Compile

Step 3 Run