A)

A1)

Total no.of visits : cut -d" " -f1 d100.log | sort | wc -l

Ans: 100

Total no.of hits : gawk '$6 ~ "GET" && $7 ~ ".html$"' d100.log | wc -l

Ans: 21

Gets: gawk '$6 ~ "GET"' d100.log | wc -l

Ans: 99

404 requests: gawk '$9 == 404' d100.log | wc -l

Ans: 1

Html requests: gawk '$7 ~ ".html$"' d100.log | wc -l

Ans: 21

```
pranay@ubuntu:~/Desktop/Data Mining Week3$ cut -d" "  -f1 d100.log  | sort | wc -l
100
pranay@ubuntu:~/Desktop/Data Mining Week3$ gawk '$6 ~ "GET" && $7 ~ ".html$"' d100.log | wc -l
21
pranay@ubuntu:~/Desktop/Data Mining Week3$ gawk '$6 ~ "GET"' d100.log | wc -l
99
pranay@ubuntu:~/Desktop/Data Mining Week3$ gawk '$9 == 404' d100.log | wc -l
1
pranay@ubuntu:~/Desktop/Data Mining Week3$ gawk '$7 ~ ".html$"' d100.log | wc -l
21
```

A2)

Total no.of visits : cut -d" " -f1 da-11-16.ipntld.log | sort | wc -l

Ans: 39974

Total no.of hits : gawk '$6 ~ "GET" && $7 ~ ".html$"' da-11-16.ipntld.log | wc -l

Ans:7386

Gets : gawk '$6 ~ "GET"' da-11-16.ipntld.log | wc -l

Ans: 39851

404 requests: gawk '$9 == 404' da-11-16.ipntld.log | wc -l

Ans: 184

Html requests: gawk '$7 ~ ".html$"' da-11-16.ipntld.log | wc -l

Ans: 7404

```
pranay@ubuntu:~/Desktop/Data Mining Week3$ cut -d" " -f1 da-11-16.ipntld.log  | sort | wc -l
39974
pranay@ubuntu:~/Desktop/Data Mining Week3$ gawk '$6 ~ "GET" && $7 ~ ".html$"' da-11-16.ipntld.log | w
c -l
7386
pranay@ubuntu:~/Desktop/Data Mining Week3$ gawk '$6 ~ "GET"' da-11-16.ipntld.log | wc -l
39851
pranay@ubuntu:~/Desktop/Data Mining Week3$ gawk '$9 == 404' da-11-16.ipntld.log | wc -l
184
pranay@ubuntu:~/Desktop/Data Mining Week3$ gawk '$7 ~ ".html$"' da-11-16.ipntld.log | wc -l
7404
```

C)

1.gawk '$6 ~ "GET" && $7 ~ ".html$"' da-11-16.ipntld.log | wc -l

Ans: 7386

2.gawk '$6 ~ "GET" && $9 == 200 || $9 == 304' da-11-16.ipntld.log | wc -l

Ans: 39117

3.gawk '$6 ~ "GET" && $9 == 404' da-11-16.ipntld.log | wc -l

Ans: 180

4.sort -t" " -k 3 da-11-16.ipntld.log | cut -d" " -f4 | head -1
Ans: 16th Nov 2005, 00:00:43

5.sort -t" " -k 3 da-11-16.ipntld.log | cut -d" " -f4 | tail -1
Ans: 16th Nov 2005, 23:59:59


```
pranay@ubuntu:~/Desktop/Data Mining Week3$ gawk '$6 ~ "GET" && $7 ~ ".html$"' da-11-16.ipntld.log | w
c -l
7386
pranay@ubuntu:~/Desktop/Data Mining Week3$ gawk '$6 ~ "GET" && $9 == 200 || $9 == 304' da-11-16.ipntl
d.log | wc -l
39117
pranay@ubuntu:~/Desktop/Data Mining Week3$ gawk '$6 ~ "GET" && $9 == 404' da-11-16.ipntld.log | wc -l
180
pranay@ubuntu:~/Desktop/Data Mining Week3$ sort -t" " -k 3 da-11-16.ipntld.log | cut -d" " -f4 | head
 -1
[16/Nov/2005:00:00:43
pranay@ubuntu:~/Desktop/Data Mining Week3$ sort -t" " -k 3 da-11-16.ipntld.log | cut -d" " -f4 | tail
 -1
[16/Nov/2005:23:59:59
```