CPU Log Monitoring System

Step1

Wrote GlobalMembers.java,monitoring_system_t.java and generate.sh files.

The java file contains logic to writing to a log1.text file by generating random data for CPU usage.

Below is a snippet of the files I created in Ubuntu Server.

```
patilay@LAPTOP-AMU9FDDF:~$ ls -ltr
total 184428
-rw-rw-rw- 1 patilay patilay        898 Jun  3 18:10 monitoring_system_t.java
-rw-rw-rw- 1 patilay patilay        496 Jun  3 18:11 monitoring_system_t.class
-rwxrwxrwx 1 patilay patilay       2679 Jun  3 19:06 query.sh
-rw-rw-rw- 1 patilay patilay       3305 Jun  3 23:18 GlobalMembers.java
-rw-rw-rw- 1 patilay patilay       2589 Jun  3 23:18 GlobalMembers.class
-rw-rw-rw- 1 patilay patilay 188833792 Jun  3 23:19 log1.txt
patilay@LAPTOP-AMU9FDDF:~$
```

Step 2

Wrote query.sh file which using grep command to get the data to the query entered. It executes 2 commands Exit and Query. I have added few cases like the query has improper parameters and a message is displayed when any such data to the query is not present.

This part took major of my time because I was previously working on AWS server and I faced memory issue. Allocated memory was less than my output at times. So I then installed ubuntu on my machine to execute this code.

Though I have generate.sh I have used java compiler and run command.

```
patilay@LAPTOP-AMU9FDDF:~$ javac GlobalMembers.java
patilay@LAPTOP-AMU9FDDF:~$ java GlobalMembers log1.txt
Generating Logs!!Please wait
DONE
patilay@LAPTOP-AMU9FDDF:~$ ./query.sh
>QUERY 192.168.1.1 0 2014-10-31 00:01 2014-10-31 00:04
CPU0 usage on 192.168.1.1:
),(2014-10-31 00:03,37
>
```

I took 16hours to write this code. Because of the error faced I took time to resolve it.