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Coding Exercise – Log Generator and Parser

INSTRUCTIONS ON RUNNING THE SCRIPTS PROVIDED

I have given a folder namely **newQuantil** which consists of 4 Java files and 2 bash Scripts. The instructions on how to run the scripts and obtain the desired results are as follows:

➔ Provide Execute permissions to both the bash scripts with the following command chmod 777 generate.sh and chmod 777 query.sh
➔ Run the generator script along with the data path using the following command. ./generate.sh logs (Logs is the Data path name)
➔ It will internally compile 2 Java files and run them. The logs will be generated under the directory provided. Also, I have checked for test case where the directory name is not given. I have attached the screenshot for both the positive and negative test case below.
➔ Also, the logs are not generated in a single file as the querying might take time. Hence I have kept a folder for each Server and each such folder has 2 text files one for each CPU Id.
➔ Now, it is time to query the generated log file. You can query the log file using the command ./query.sh logs (This is the directory that was generated in the previous step)
➔ Upon running this Command, you will be prompted to the other arguments necessary for the query to take place. The syntax for querying is as follows:
     QUERY IP_Address Cpu_Id Startdate StartTime EndDate EndTime
➔ The results will be outputted in the command line. Again, I have also tested if the directory exists and for other invalid commands.
➔ The snapshots have been attached here and the working video has been sent in email to Kory.

> The above snip is for the Generator. Both the test cases have been handled
> The below snip if for the Query. All the different test cases have been handled.

TIME TAKEN TO COMPLETE THE EXERCISE

Sub Tasks	Total Time Taken to Complete it
Installing Vm	30mins
Learning about the basics of Bash	2 to 3 hours
Simple Program to link a Java file from a Bash Script	1 hour
Java Code to generate the logs	Around 3 hours
Java Code to Query the logs	Around 2 hours
Changing the design of generating the logs due to querying purposes	1 hour
Writing Report, Making Video, Documenting the code	3 hours