Python Code Challenge (Must be submitted within 48 hours of receipt via email):

- Candidate uses their local computer to execute
- Candidate uses python (3.6+ preferred, 2.7 is ok)
- Candidate may not use any other scripting languages (including bash or any other shells)
- Non-standard python libraries are ok

Create a python virtual environment. Within that environment, write a python script to do the following:

- 1. Create 3 directories: teradata logs, new log dir1, and new log dir2.
- 2. In teradata_logs, generate a random number of files (between 10 and 100).
 - a. The files should be named "teradata_logs_###.log" where ### is the number of the log file (e.g. if you generate 30 log files, they will be named teradata logs 001.log through 030.log). Be sure to zero-pad the numbers.
 - b. These log files should contain random alpha-numeric strings, each string should be between 10 and 70 characters in length.
- 3. Ordering alphabetically, copy all but the last 3 log files in teradata logs to new log dir1
- 4. Ordering alphabetically, copy only the last 3 log files in teradata logs to new log dir2
- 5. Replace all occurrences of the letters a, b, and c with the word "teradata" (without the quotes) in all log files in new_log_dir1
- 6. The python script should print to stdout a count of the occurrences of the word "teradata" (without the quotes) in new_log_dir1.
- 7. If the count in step 6 is zero, the script should print an error to stderr such as "No occurrences of the word teradata in new log dir1".
- 8. Submission must execute from the command-line. The candidate must provide instructions on how to execute.

Submit the code challenge as a Github link or public repository. Submissions must be submitted within 48 hours of receipt of the challenge.

Candidates' submissions will be evaluated on the following:

- Execution (script executes without errors except in the case of step 7)
- Completeness (all steps completed as described)
- Organization
- Readability
- Efficiency
- Documentation