**prep week: BASH**

BASH basics

The following exercise contains the following subjects:

● BASH basics

**Instructions**

1. Scenario: Analyzing Server Logs

As an aspiring bash developer, you've been tasked with analyzing server logs for a website. You'll use various bash commands to navigate through logs, extract useful information, and generate reports.

1. Start by creating a directory named "ServerLogs" using the `mkdir` command.

2. Move into the "ServerLogs" directory using the `cd` command.

3. Inside the directory, create three subdirectories: "AccessLogs," "ErrorLogs," and "Reports."

4. Use the `ls` command to list the contents of the "ServerLogs" directory. What do you see?

5. Move into the "AccessLogs" directory using the `cd` command.

6. Create a sample access log file named "access.log" using the `touch` command.

7. Display the first 10 lines of the access log using the `head` command.

8. Use the `grep` command to find all lines containing "GET" requests in the access log.

9. Move back to the "ServerLogs" directory.

10. Create a script named "generate\_report.sh" that calculates the number of "POST" requests in the access log and saves the count to a file in the "Reports" directory.

11. Make the script executable using the `chmod` command.

12. Run the script on the access log and observe the generated report file.

13. Move into the "ErrorLogs" directory.

14. Create a file named "error\_summary.txt" using the `touch` command.

15. Use the `find` command to locate all error log files in the "ErrorLogs" directory and its subdirectories.

16. Append the names of the error log files to "error\_summary.txt" using the `echo` command.

17. Calculate the total disk usage of the "ServerLogs" directory using the `du` command.

18. Use the `pwd` command to display the current directory path and redirect the output to a file named "Location.txt."

2. send me the answers in pdf format to [yishain11@gmail.com](mailto:yishain11@gmail.com). Later in the course you will upload the answers to moodle.