Practical exam for sysadmins

Requirements:

1. Linux/Unix based OS or virtualization of such.
2. Running Shell
3. Availability to share complete desktop
4. Github public account
5. Clone the public repository: <https://github.com/carvanrra/Exams/>

Rules:

1. Share the complete desktop during the exam
2. Verbally express the actions to resolve the problem (talk about the each line you are programming)
3. You can search internet for the official documentation of APIs or tools needed
4. Cannot search for the exact specific solution of the problem.

The problem:

Build an executable shell script, with the next conditions

1.- Create or been able to update a log file with the next name audit\_log.txt

2.- Pull the latest files of the repository.

2.1 - Add a log: “[System Date] : [Repository\_name] repository successfully updated”

3.- Create X number of files by reading “InputFileNames” variables separated by (,) the files should have .txt extension example “manzana.txt”

3.1- Each file should contain a random 8-digit Hexadecimal (Hex) number

3.2- Each file should be saved on the “path” described in the .env file.

3.3 - Add a log for each document created: “[System Date] : [File\_name] document created”

4.- Change permission to all files under “path” to 777

4.1 – Add a log: “[System Date] :[System output of the change permissions command]”

5.- Change all file names with the name from the variable “OutputFile” and add a counter that starts with zero at the end of the name, example: new\_name0.txt, new\_name1.txt and so on.

5.1- Add a log for each name been changed: “[System Date]: [Old\_File\_name] rename to [New\_File\_Name] “

7.-Create a local branch based of master and named: “Exam-YourFirstName”

6.-Add all files to a commit

6.1 - Add a log: “[System Date]: [SystemOutPutOfTheCommitFilesCommand]”

7.- Commit your changes and add to the commit description: “Exam perform by [Add your name here] “

8.- Push your new branch to the remote repository

8.1 – Add a log: “[System Date]: [SystemOutPutOfThePushBranchCommand]”

9.- Print in console the audit\_log.txt file

Successful criteria:

The result of the script should meet each of the steps bellow with no exception.