



NEW YORK CITY COLLEGE OF TECHNOLOGY

THE CITY UNIVERSITY OF NEW YORK

Department of Computer Engineering Technology

300 Jay Street, Brooklyn, NY 11201-1909

LAB REPORT EMT 2390L – OL76

(OPERATING SYSTEM LABORATORY)

LAB #3

Name: Puja Roy

Date: 2/19/21

20 Linux System Variables

During this lab, I created a vi file and wrote 20 system variables and their descriptions.

```
pujaroy@DESKTOP-U16R768: ~  
#!/bin/bash  
# lab3  
echo "System Variables"  
echo "1. PATH - This variable lists directories in which a system searches for executable files"  
echo "2. USER - This variable lists the username in a file"  
echo "3. HOME - This variable is a default path to the user's home directory"  
echo "4. EDITOR - This variable is the path to the program which edits the content of files"  
echo "5. UID - This variable is the User's unique ID"  
echo "6. TERM - This variable is a default terminal emulator"  
echo "7. SHELL - This variable is a shell being used by the user"  
echo "8. ENV - This variable displays all the environment variables"  
echo "9. echo $VARIABLE - This variable displays the value of a variable"  
echo "10. VARIABLE_NAME=variable_value - This variable creates a new variable"  
echo "11. unset - This variable removes a variable"  
echo "12. export Variable=value - This variable sets the value of an environment variable"  
echo "13. printenv command - This variable prints all or parts of environment"  
echo "14. set command - This variable lists the name and value of each shell variable"  
echo "15. BASH_VERSION - This variable holds the version of a instance of bash"  
echo "16. HOSTNAME - This variable is the name of your computer"  
echo "17. CDPATH - This variable is the search path for the cd command"  
echo "18. HISTFILE - This variable is the name of the file in which command history is saved"  
echo "19. IFS - This variable represents the Internal Field Separator that is used for word splitting after expansion"  
echo "20. TMOUT - This variable is the default timeout for the read builtin command"
```

Then, I saved my vi file to view the file that I created listing the 20 system variables.

Select pujaroy@DESKTOP-U16R768: ~

```
pujaroy@DESKTOP-U16R768:~$ vi File lab3
2 files to edit
pujaroy@DESKTOP-U16R768:~$ ./ File lab3
-bash: ./: Is a directory
pujaroy@DESKTOP-U16R768:~$ ls -l
total 16
-rw-r--r-- 1 pujaroy pujaroy 1601 Feb 20 21:54 File
drwxr-xr-x 1 pujaroy pujaroy  512 Feb  6 11:04 Roy
-rwxr-xr-x 1 pujaroy pujaroy   88 Feb 20 10:28 firstscript
-rw-r--r-- 1 pujaroy pujaroy 8891 Feb 13 18:43 ls.txt
pujaroy@DESKTOP-U16R768:~$ ./File lab3
-bash: ./File: Permission denied
pujaroy@DESKTOP-U16R768:~$ chmod ugo+x File lab3
chmod: cannot access 'lab3': No such file or directory
pujaroy@DESKTOP-U16R768:~$ ./File lab3
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pujaroy@DESKTOP-U16R768:~$
```