

Department of IT & CS

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Section: DS21

COMP-262L: Operating Systems

Lab 07: Process Msnagement

Software: VM VirtualBox, VMware Workstation Player, Windows Subsystem for Linux (WSL)

Lab Task 1:

- a. Find out the shell (and its version) you are using.
- b. Create a shell script file `bash_script` that prints the message: This is a Bourne Again Shell script.
- c. Create a shell script file `perl_script` that prints the message This is a Perl script.
- d. Run the bash script using `bash script_name` and perl script using `perl script_name`
- e. Run both the scripts using `./script_name`. Try to resolve the error if you encounter one.
- f. Write the commands to
 - a. Execute the `bash_script` and `perl_script` file sequentially
 - b. Execute the `perl_script` only if the `bash_script` is run successfully
 - c. Execute the `perl_script` only if the `bash_script` is not run successfully

Lab Task 2:

- a. List all the variable in linux environment
- b. Create a shell script file that displays the following information using environment variable
 - a. MACHINE TYPE =
 - b. HOST NAME =
 - c. HOST TYPE =
 - d. OS =
 - e. LOGIN =
 - f. SHELL =
 - g. PATH =
 - h. BASH VERSION =

~~c. Define a variable person=your_name and execute the following commands.~~

Comment on the difference between them.

- a. echo person
- b. echo \$person
- c. echo "\$person"
- d. echo 'person'
- e. echo \person
- d. Declare the variable person to be readonly
- e. Create a readonly variable person2
- f. Display a list of all readonly shell variables.
- g. Display a list of all integer shell variables.
- h. Try to remove the variable person

Lab Task 3:

- a. Write script to find the average of five numbers.
- b. Write a script that takes two numbers from users and display their sum and multiplication.
- c. Write a shell program to exchange the values of two variables.

Lab Task 4:

- a. List all the commands/control structures that you have used in this lab in a table with one line description of each.