

7 Post Experiment Exercise

B. Questions

1 Explain arrays in shell with an example

Ans. Shell supports array variable. This can hold multiple values at the same time. Array provides a method of grouping a set of variables. Instead of creating a new name for each variable that is required, you can use a single array variable that stores all the other variables.

ex	name[0]="Lional"	echo "Second names \${name[@]}"
	name[1]="Richard"	echo "All names: \${name[@]}"
	name[3]="Stephen"	
	name[4]="Nikola"	

O/P Second name is Richard

All names: Lional Richard Stephen Nikola.

2. Write a shell program to count no of files in a directory.

Ans. #!/bin/bash

START=\$HOME

#change directory to commandline if passed, otherwise use home.

[\$# -eq 1] && START=\$1 || :

if [! -d \$START]

then

echo "\$START not a directory!"

exit 1

fi

variable

DIRS=\$(find "\$START" -type d)

#loop through each dir to get all sub dir files

for d in \$DIRS

do

["\$d" != "." -a "\$d" != ".."] && echo "\$d directory has

\$(ls -l \$d | wc -l) files"

done.

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Conclusion

In this experiment we performed shell scripting in Unix terminal. We searched for an element within a list, computed GCD & LCM of 2 numbers and checked whether a file is a directory or not.

Shellscripts are powerful tools that let us execute program directly from the OS.

References : 1. Yashwanth Kanetkar, UNIX Shell Programming.
2. Sumitabha Das, UNIX Concepts & Applications.
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