Linux Classroom Series – 03/Sept/2020

Iterating through directories and files

* To do this we can write a very simple *for* loop
* Exercise: Find mistake in the following shell script

#!/bin/bash

echo "Directory path entered by user is /home/ubuntu/contents/\*"

for path in "/home/ubuntu/contents/\*";

do

echo "processing ${path} "

if [ -d "$path" ];

then

echo "${path} is directory"

elif [ -f "$path" ];

then

echo "$path is file"

fi

done

* where as this script is working

for file in /home/ubuntu/contents/\*; do

echo $file

done

* Try to find a way to reuse last commands output
* Nesting loops

#!/bin/bash

for (( row=1; row<=3; row++ ))

do

for (( col=1; col<=3; col++ ))

do

echo "${row} \* ${col}"

done

done

* Redirecting loop output to a file

#!/bin/bash

for (( row=1; row<=3; row++ ))

do

for (( col=1; col<=3; col++ ))

do

echo "${row} \* ${col}"

done >> rowscols.txt

done

While and until

* Example of while

$COUNT=20

while [ $COUNT -gt 0 ] ;

do

echo "$COUNT"

(( COUNT-- ))

done;

* Another example for same logic

#!/bin/bash

COUNT=20

while [ "$COUNT" -gt 0 ] ;

do

echo "$COUNT"

(( COUNT-- ))

done;

* Example Until loop

#!/bin/bash

COUNT=10

until (( COUNT < 0 )); do

echo "$COUNT"

(( COUNT-- ))

done