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

- 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</pre>
```

• 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-- ))
```

• Another example for same logic

```
#!/bin/bash
COUNT=20
while [ "$COUNT" -gt 0 ];
do
    echo "$COUNT"
    (( COUNT-- ))
```

• Example Until loop