OPERATING SYSTEM 1

Lecture 5

Eng. Joud Khattab

LINUX SHELL SCRIPT

Arguments in bash script

Program	Output
#! /bin/bash x=$1 y=$2 echo $(expr $x + $y)	./example.bash 1 4 5

Example

Program	Output
#! /bin/bash d=$(date) h=$(echo $d | cut -d' ' -f4 | cut -d':' -f1) echo $h	The program will print the hour

Integer comparison in bash script

- -gt
  - Is equal to: > if ["$a" -gt "$b"]
- -lt
  - Is equal to: < if ["$a" -lt "$b"]
- -eq
  - Is equal to: == if ["$a" -eq "$b"]
- -ne
  - Is equal to: != if ["$a" -ne "$b"]
- -ge
  - Is equal to: >= if ["$a" -ge "$b"]
- -le
  - Is equal to: <= if ["$a" -le "$b"]

If Statement in bash script

Program	Output

#! /bin/bash
x=1
y=2
z=$(expr $x + $y)
if [$z -gt 2] ; then
echo "YES"
else
echo "NO"
fi
	YES

Loop in bash script

Program

```
#! /bin/bash
x=1
while [ $x -lt 10 ] ;
do
echo $x
x=$(($x+1))
done
```

Output

```
1
2
3
4
5
6
7
8
9
```

Loop 2 in bash script

Program	Output
#! /bin/bash for ((n=1;n<=10;n++)) do echo $n done	1 2 3 4 5 6 7 8 9

Loop 3 in bash script

Program	Output
#! /bin/bash for var in canada usa mex do echo $var done	canada usa mex

EXERCISES

Exercise 1

- Write a program that get two numbers (n – r).
  - If n equal 1 then print the area of the circle.
  - If n equal 2 then print the circumference of circle.
  - Else print “Wrong Input!”.
- Note:
  - n: option.
  - r: radius.

Exercise 2

- Write a program that get one string (str).
  - If str equal “odd” print odd numbers from (1 -> 100).
  - If str equal “even” print even numbers from (1->100).