Shell Scripts

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1. Read

- read –t 3 text
 - Terminal waits for 3 seconds to get user input. If time elapsed, it exists.
- Read –s text
 - o User inputs are not displayed

2. echo

- echo –n "Enter some text > "
 - o The cursor is placed in the same line.

3. more

- Displays one page at a time
- No backwards scrolling
- Space bar -> One screen up
- Enter -> One line up
- q -> quit
- Example
 - ls –l /usr/bin | more

4. less

- More sophisticated solutions than more
- j/k -> movement one line
- f/b -> Movement by one window at a time
- h -> help window
- q -> quit

5. uniq

- Removes the duplicate entries
- Compares only if entries are adjacent to each other

6. sort

• Arranges the contents of the file in Ascending order.

7. String Concatenation

```
#!/bin/bash
x="Hello"
y=" World"
z=$x$y
echo $z
```

8. String Comparison

9. Nested If Loop

```
#!/bin/bash
echo -n "Enter a number between 1 and 3 inclusive > "
read character
if [ "$character" = "1" ]; then
        echo "You entered one."
```

```
elif [ "$character" = "2" ]; then
     echo "You entered two."
elif [ "$character" = "3" ]; then
    echo "You entered three."
else
    echo "You did not enter a number"
    echo "between 1 and 3."
fi
10. For Loop
#!/bin/bash
for i in word1 word2 word3; do
  echo $i
done
11. While Loop
#!/bin/bash
number=0
while [ $number -le 10 ]; do
     echo "Number = $number"
     number=$((number+1))
done
```

12. Case

#!/bin/bash

```
echo -n "Type a digit or a letter> "
read character
case $character in

[a-z] | [A-Z] ) echo "you typed the letter $character"
;;

[0-9] ) echo "you tyed the digit $character"
;;

* ) echo "you did not type a letter"
esac

13. Arithmetic Expression
#!/bin/bash
```

```
first_num=0
second_num=0
echo -n "Enter the first number --> "
read first_num
echo -n "Enter the second number -> "
read second_num
```

```
echo "first number + second number = $((first_num + second_num))"
echo "first number - second number = $((first_num - second_num))"
echo "first number * second number = $((first_num * second_num))"
echo "first number / second number = $((first_num / second_num))"
echo "first number % second number = $((first_num % second_num))"
echo "first number raised to the"
echo "power of the second number = $((first_num ** second_num))"
     Function
14.
#!/bin/bash
function hello
{
     echo "Hello"
}
function world
{
     echo " World"
}
#Execute the Function, Just by calling the function
hello
world
```

15. File Present or not

```
#!/bin/bash
if [ $# -ne 1 ]; then
      echo "Usage - $0 file-name"
      exit 1
fi
if [ -f $1 ]; then
      echo "$1 file exist"
else
      echo "sorry $1 file doesn't exist"
fi
16. Directory Present or not
#!/bin/bash
if [ $# -ne 1 ]; then
      echo "Please Enter the Directory Name"
      exit 1
fi
if [ -d $1 ]; then
      echo "Directory present"
else
```

echo "Directory Not present"

fi