

## Day 4 task

Explain in your own words and examples, what is Shell Scripting for DevOps.

- A shell is a command-line interpreter and typical operations performed by shell scripts include file manipulation, program execution, and printing text.
- A bash script is a plain text file that contains a series of commands.
- we will open the file vi/vim editor and add some commands in it.
- It is a convention to give files that are bash script an extension of .sh (file.sh)

### For example

```
$vim print.sh  
#!/bin/bash
```

- 1) What is #!/bin/bash? can we write #!/bin/sh as well?

" #!" called as SHEBANG character, it tells the script to interpret the rest of the lines with an interpreter/bin/bash.

Bash (Bourne again shell) is a shell replacement for the Bourne shell. Bash is a superset of sh.#!/bin/bash . and yes we can use #!/bin/sh instead of #!/bin/bash

- 2) Write a Shell Script which prints I will complete #90DaysOfDevOps challenge

```
ubuntu@ip-172-31-80-139:~/my_scripts$ bash print.sh  
I will complete #90DaysOfDevOps challenge  
ubuntu@ip-172-31-80-139:~/my_scripts$ ls  
check_file_exist.sh  for_loop.sh  new_folder1  show_date_and_time.sh  
disk_stats.sh       make_folder_file.sh  print.sh    variables.sh  
ubuntu@ip-172-31-80-139:~/my_scripts$  
ubuntu@ip-172-31-80-139:~/my_scripts$ cat print.sh  
#!/bin/bash  
  
echo "I will complete #90DaysOfDevOps challenge"  
ubuntu@ip-172-31-80-139:~/my_scripts$
```

- 3) Write a Shell Script to take user input, input from arguments and print the variables.

```

ubuntu@ip-172-31-80-139:~/my_scripts$ vim print.sh
ubuntu@ip-172-31-80-139:~/my_scripts$ bash print.sh shrikant trainwithshubham 5th
I will complete #90DaysOfDevOps challenge
I shrikant welcome you to the shell script
i am from trainwithshubham and todays is my 5th day of training
ubuntu@ip-172-31-80-139:~/my_scripts$

```

```

#!/bin/bash

echo "I will complete #90DaysOfDevOps challenge"

echo I $1 welcome you to the shell script

echo i am from $2 and todays is my $3 day of training

~

```

4) Write an Example of If else in Shell Scripting by comparing 2 numbers\

```

#!/bin/bash

a=10
b=11

if [[ $a -ge $b ]]
then
    echo "the variable 'a' is greater than 'b'."
else
    echo "the variable 'b' is greater than 'a'."
fi

```

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```

the variable 'b' is greater than 'a'
ubuntu@ip-172-31-80-139:~/my_scripts$ vim compare.sh
ubuntu@ip-172-31-80-139:~/my_scripts$ bash compare.sh
the variable 'b' is greater than 'a'.
ubuntu@ip-172-31-80-139:~/my_scripts$

```

Using user arguments

```
#!/bin/bash
echo "please ether the 1st no:" ; read a
echo "please enter the 2nd no:" ; read b

if [ $a -gt $b ]
then
    echo "1st no is greater i.e $a"
elif [ $a -eq $b ]
then
    echo "1st no and 2nd no are equal"
elif [ $a -lt $b ]
then
    echo "2nd no is greater i.e $b"
else
    echo "no condition met"
fi
```

```
ubuntu@ip-172-31-80-139:~/my_scripts$ . argcompare.sh
please ether the 1st no:
7886
please enter the 2nd no:
890
1st no is greater i.e 7886
ubuntu@ip-172-31-80-139:~/my_scripts$ bash argcompare.sh
please ether the 1st no:
777
please enter the 2nd no:
777
1st no and 2nd no are equal
ubuntu@ip-172-31-80-139:~/my_scripts$ vim argcompare.sh
ubuntu@ip-172-31-80-139:~/my_scripts$ bash argcompare.sh
please ether the 1st no:
111
please enter the 2nd no:
114
2nd no is greater i.e 114
ubuntu@ip-172-31-80-139:~/my_scripts$
```