

Assignment Day 23 | 21st November 2020 By Sameer Kulkarni

QUESTION 1: Create a script script1 which will read the name of the user and the number of lines to be displayed from C:\abcd.txt from the users interactively. You welcome the user and then display the top so many lines from C:\abcd.txt. If the number of lines entered is greater than the number of lines available, a proper message should be displayed. (Hint: Use Array)

Answer 1: The script is

QUESTION 2: Read 2 numbers from the user. If these numbers are greater than zero then display the sum of these numbers.

Answer 2. The script is as follows:

```
$val1 = Read-Host 'Enter value 1'
$val2 = Read-Host 'Enter value 2'
if ($val1 -gt 0 -and $val2 -gt 0)
{$result = $val1 + $val2
write-output "The sum of numbers entered is $result"}
else{ Write-Output "You entered a number less than zero"}
```

QUESTION 3: Read the name & password of the user. Check whether the username is DAD and password is 111 and give appropriate messages

Answer 3. The script is as follows:

```
$c = Get-Credential
if (($c.username -eq "DAD") -and ($c.GetNetworkCredential().password) -eq "111")
{write-output "You entered correct username and password"}
else
{write-output "Wrong Credentials"}
```

QUESTION 4: Read a file name from the user. Check recursively whether it's a regular file and is empty and then remove the file. After verifying the removal, give a confirmation message.

```
Answer 4: find dir -empty -type f -delete
```



QUESTION 5: Create a shell script which gives the following choices to the user

- 1. Gives number of running services (service name is not required, only count the numbers)
- 2. List the no of processes
- 3. Count of files in the current dir

Answer 5:

- 1. systemctl --type=service
- 2.
- 3. ls -1 | wc -1

QUESTION 6: Create a shell script that backs up all the content of a specific directory, where the designation directory name is equal to the current date and time, when the script was run.

Answer 6: The script is as follows:

Not understood.

QUESTION 7: You have a directory that contains files of different extensions. (say mp3, exe, pdf, doc etc.). You need to take all files with the same extension and copy it in a directory where the directory name is the extension of the file.

Answer 7: The script used for this purpose is as follows:

```
#!/bin/bash
for filename in *; do
if [[ -f "$filename" ]]; then
base=${filename%.*}
ext=${filename#$base.}
mkdir -p "${ext}"
mv "$filename" "${ext}"
fi
done
```

QUESTION 8: You have a few files with the same content but different names. I mean they are duplicates. You have to search all duplicate files and delete all files keeping only one copy of the file.



Answer 8: To search for duplicate files, fdupes is used with -d for deleting duplicate files and -N for not prompting before deleting. It keeps only one file in a specific directory. The command is:

fdupes -d -N /root

QUESTION 9: Find the system uptime and display it in format in red background and yellow text.

Answer 9: The script to display uptime as required is as follows

tput setaf 3 tput setab 1 uptime

```
[sameer_kuls@lucentossam ~]$ uptime
10:24:23 up 12 days, 17:33, 1 user, load average: 0.02, 0.06, 0.02
[sameer_kuls@lucentossam ~]$
```

Note: The system uptime is 5days 3hours 7 min