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## **BIG DATA**

## **HOMEWORK 1**

Q 1: Open the file /var/log/messages in the vi editor and delete line number 150.

\$vi /var/log/messages used to open a message file.

:set number used to set specific line of the line inside the file. :150 d representation of particular line to be delete

:wq command used to exit and save from a file.

Q 2: Write a shell script to add two numbers?

#!/bin/bash

# Calculate the sum of two integers with pre initialize values

# in a shell script a=40

b=40 sum=\$(( \$a + \$b ))

echo "Sum: \$sum"

output: Sum: 80

Q 3:User root wants to copy /etc, including all subdirectories and files to /tmp.

How will you achieve this task?

below command can we achieve copy /etc, including all subdirectories and files to /tmp. sudo cd /etc cp -r /etc tmp

Q 4:Create a file that contains only the username and the user id of all the user present on the server.

\$cat /etc/passwd

By this unix command can we create a file that contains only the username and the user id of all the user present on the server.

Q 5:How will you provide a count of all users on the system except for adm user?

\$ who above command we can count a all users on the system except for
adm user.
Q 6:How will you list all files in /tmp in increasing order of their size?
"\$ Is -laShr" Using this command we can list the files in increasing order. To list all files and sort them by size, use the -S.
By default, it displays output in descending order (biggest to smallest in size)l
flag means long listing and -a tells ls to list all files including (.) or hidden files.
human-readable format by adding the -h
And to sort in reverse order, add the -r flag.
And to soft in reverse order, and the -r mag.
Q 7:What command is used to clear history on the Linux server? Removing history
to delete a particular command, enter history -d <line number=""> . To clear the entire contents of the history file, execute history -c .</line>
Q 8:Explain "Big Data" and what are five V's of Big Data BigData.
Big data is a collection of data from many different sources and is often describe by five characteristics:
Volume.
Variety.
Velocity.
Veracity.
Value.
Q 9: What is Hadoop and its components?
Apache Hadoop is an open source framework that is used to efficiently store and process large datasets ranging in size from gigabytes to petabytes of data.  1. Hadoop HDFS - Hadoop Distributed File System (HDFS) is the storage unit.

- 2. Hadoop MapReduce Hadoop MapReduce is the processing unit.
- 3. Hadoop YARN Yet Another Resource Negotiator (YARN) is a resource management unit.