YUKESH R M

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 is 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.
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>
Thistory me, execute motory of
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?
2. 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.