- 1. How i can see from command prompt that on which directory you are?
 - PWD
- 2. How i can change permission of file to read only for that user?
 - chmod u+r <filename>
- 3. how i can create new user?
 - Useradd <username>
- 4. how i can install mysql in ubuntu?
 - sudo apt-get install mysql
- 5. How i can set insert mode on VI editor? And how i can save data in file using VI editor?
 - Press 'i' for insert mode and press ':w' to save data in file.
- 6. if i want to search from history of command then which short cut i can use?
 - Using UP-ARROW key
- 7. Write a command which gives me running mysql process and its pid
 - ps | grep mysql
- 8. which command helps me to copy file from my local machine to remote machine? Give one example
 - scp for.sh nasit@rapidadmin-desktop:/bin/
- 9. Write a command that will display all .txt files, including its individual permission.
 - Is -I | grep ".txt" OR Is -I *.txt
- 10. How can i terminate all process at once?
 - killall
- 11. how i can get first 10 lines of any file?
 - head <filename>
- 12. how i can know free space on disk?
 - free -h
- 13. write command which remove folder from my machine.
 - rmdir
- 14. Which command helps me to search contents of a file for particular pattern?
 - grep
- 15. Write command to display current date in the form dd/mm/yyyy.
 - date "+%d/%m/%Y"
- 16. how i can remove all lines from file ? (without removing that file)
 - truncate -s 0 <filename>
 - Overwrite the file using cat (for example: cat > <filename)
 - In command mode of vi editor press ":1,\$d"
- 17. The permission rwxr—r— represented in octal expression will be ?
- A. 777
- B. 511
- C. 744
- D. 711
- 18. Which command can be use for change user password?
 - passwd

19. how and where i can set test.rapidops.com against localhost $\ref{eq:constraint}$

-

20. Create file and set its group as root

```
- touch <filename>
```

- Chgrp root <filename>

Linux Exercise

1. Write a shell script that adds an extension ".new" to all the files in the directory.

```
#!/bin/bash
changeExt(){
    for i in "$1"/*; do
    mv $i $i.new
    done
}
```

changeExt.

remFile

2. Delete file which has special characters. " -", "—", "*", "\$"

```
#!/bin/bash

remFile(){
    for i in ./*
    do
        if [ -f $i ] ; then
        value=`echo "$i" | cut -c 3-`
        if [[ ( $value == *[-]* ) || ( $value == *[\*]* ) ||
```

3. Write a shell script that take two input numbers from user at runtime and display arithmetic operation on that numbers, find out max, & min number from them, find weather that numbers negative or positive.

```
#!/bin/bash
read -p "Enter input 1: " ip1
read -p "Enter input 2: " ip2
echo "\nArithmetic Operations are :\n"
echo "Addition is "$(( $ip1 + $ip2 ));
echo "Substraction is "$(( $ip1 - $ip2 ));
echo "Multiplication is "$(( $ip1 * $ip2 ))
echo "Division is "$(( $ip1 / $ip2 ))
echo "Remaider is "$(( $ip1 % $ip2 ))
echo "\n"
if [ $ip1 -gt $ip2 ]; then
       echo "$ip1 is Maximum"
       echo "$ip2 is Minimum"
else
       echo "$ip2 is Maximum"
       echo "$ip1 is Minimum"
fi
if [$ip1 -eq $ip2]; then
       echo "$ip1 and $ip2 are equal"
else
       echo "$ip1 and $ip2 are not equal"
fi
if [ $ip1 -gt 0 ]; then
       echo "$ip1 is Positive"
else
       echo "$ip1 is Negative"
fi
if [ $ip2 -gt 0 ]; then
       echo "$ip2 is Positive"
else
       echo "$ip2 is Negative"
```

fi

4. Write a shell script that take one input number from user and print 1 to n number using three loops (For, while, until). (N = entered number)

#!/bin/bash

```
read -p " Enter number : " n

echo "Using for Loop"

for i in $(seq 0 $n) ; do
    echo $i

done

echo "Using While Loop"

i=0

while [ $i -le $n ] ; do
    echo $i
    i=$(( $i+1 ));

done

echo "Using Until Loop"

i=0

until [ $i -ge $n ] ; do
    echo $i
    i=$(( $i+1 ));

done
```

5. Write a shell script to display the last updated file of the newest file in a directory. #!/bin/bash

```
echo `ls -pt | grep -v / | head -1`
```

6. Write a shell script to get the total count of the word "Linux" in all the ".txt" files and also across

files present in subdirectories.

#!/bin/bash

```
matches=$(grep -ro "a" * | wc -l) echo "Total matches: $matches"
```

7. Write a shell script that copy all the directories, subdirectories and files from one location to another specific location.

#!/bin/bash

cp * \$1

- 8. Display specific number of lines as follow:
- 1. Display first and last 10 lines of file contains
- 2. Display line no. 3 to 8 from file contains.
- 3. Display 7 lines and start from second last line in reverse manner.

#!/bin/bash

```
echo "All Lines "`cat sample`
echo "First 10 Lines : "`head sample`
echo "Last 10 Lines : "`tail sample`
echo "Line 3-8 : "`head -8 sample | tail -5`
echo "7 Lines from Last Second Line : "`tail -8 sample | head -7 | tac`
```

- 9. Perform following task:
- 1. Add two new users and two groups
- 2. Login as one user and then create new file
- 3. Send created file from one user to another user
- 4. Login as second user and copy that file from user2 to user1(in same system)

10. Ex. 10 Task to find all files from folder where file contains string 'abc'

#!/bin/bash

grep -rnwl "abc" *