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1) Study of basic Linux commands.

2) Write a shell script to find the sum of first 'N' numbers in Fibonacci series (use for loop)

done

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```
② gaurav1020@DESKTOP-RORPIEK:~/cyclesheet1$ vi Fibonacci.sh
gaurav1020@DESKTOP-RORPIEK:~/cyclesheet1$ vi Fibonacci.sh
gaurav1020@DESKTOP-RORPIEK:~/cyclesheet1$ ./Fibonacci.sh
Enter the number of elements to print:
8
The Fibonacci series is:
0
1
1
2
2
3
5
5
8
13
gaurav1020@DESKTOP-RORPIEK:~/cyclesheet1$
```

3) Write a shell script to print a given number in reverse order and sum of the individual digits.

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```
gaurav1020@DESKTOP-R0RPIEK: ~/cyclesheet1
unit=10
while [ $n -gt 0 ]
                      remainder=`expr $n % 10`
reverse=`expr $reverse \* 10 + $remainder'
n=`expr $n / 10`
                                                                                                                                                           10,10-24
gaurav1020@DESKTOP-R0RPIEK: ~/cyclesheet1
aurav1020@DESKTOP-R0RPIEK:~/cyclesheet1$ vi reverse_and_sum.sh
aurav1020@DESKTOP-R0RPIEK:~/cyclesheet1$ ./reverse_and_sum.sh
nter any integer:
```

4) Write a shell script to accept one integer argument and print its multiplication table.

```
echo "Enter the number: "
read n
echo "Multiplication Table of $n is:"
for ((i=1;i<11;i++))
do

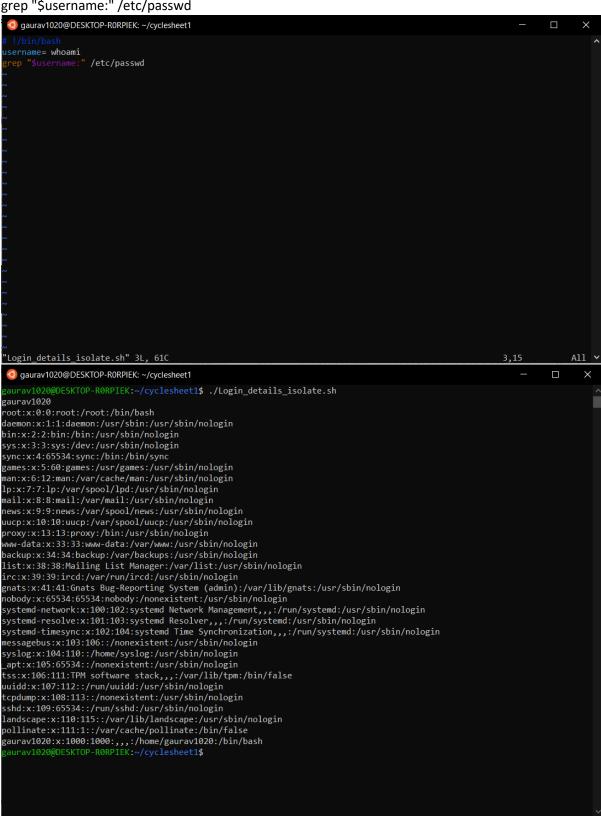
a=`expr $n \* $i`
echo "n \times i = n"
done
```

```
gaurav1020@DESKTOP-R0RPIEK: ~/cyclesheet1
                                                                                                                                                                                      8,4
                                                                                                                                                                                                               A11 ~
  gaurav1020@DESKTOP-R0RPIEK: ~/cyclesheet1
  aurav1020@DESKTOP-R0RPIEK:~/cyclesheet1$ vi Multiplication_Table.sh
aurav1020@DESKTOP-R0RPIEK:~/cyclesheet1$ ./Multiplication_Table.sh
 Enter the number:
Multiplication Table of 7 is:
Multiplicat
7 x 1 = 7
7 x 2 = 14
7 x 3 = 21
7 x 4 = 28
7 x 5 = 35
7 x 6 = 42
7 x 7 = 49
7 x 8 = 56
7 x 9 = 63
7 x 10 = 70
 7 x 10 = 70
gaurav1020@DESKTOP-RORPIEK:~/cyclesheet1$
```

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Name: Gaurav Kumar Singh Cyclesheet1 Q1-6

5) Write a Shell Script that makes use of grep to isolate the line in /etc/passwd that contains your login details.

!/bin/bash username= whoami grep "\$username:" /etc/passwd



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echo "All Files in the Director: "
Is
echo "Permission of all .txt format files with the names: "
Is -I *.txt
sudo chmod -R 444 *.txt
echo "Permission of all .txt format files after changing their permission: "

Is -I *.txt

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Name: Gaurav Kumar Singh Cyclesheet1 Q1-6