INSTITUTE OF ENGINEERING AND MANAGEMENT KOLKATA
DEPARTMENT OF COMPUTER SCIENCE
OPERATING SYSTEM LAB CS 693

DATE : 13.02.2019

1. Write a shell program to display the content of a file after reading the file.
Code :-

```
echo "Enter Location of your file : "
read x
cat $x
```

Output :-

```
root@Swapnil:~# sh first.sh
Enter Location of your file :
/root/Desktop/test.txt
Test File
Program No 1
root@Swapnil:~#
```

2. Write a shell program to display the first three lines of a file.

Code :-

```
echo "Enter Location of your file : "
read x
head -3 $x
```

Sample Output :-

```
root@Swapnil:~# sh first.sh
Enter Location of your file :
/root/Desktop/test.txt
Test File
Program No 1
root@Swapnil:~# cat /root/Desktop/test.txt
Test File
Program No 1
Alpha
Beta
Gamma
Theta
Tilde~
root@Swapnil:~#
```

3. Write a shell program to perform the swapping between two numbers taken from user during run time.

Code :-

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```
echo "Enter two numbers : "
read x
read y
echo "Numbers are $x and $y"
z=$x
x=$y
y=$z
echo "Numbers are $x and $y"
```

Sample output :-

4. Write a shell program to print the largest among three numbers by passing the numbers through command line arguments.

Code :-

```
echo "Enter three numbers : "
read x
read y
read z
if [ $x -gt $y ]
then
   if [ $x -gt $z ]
   then
      echo "$x is greatest"
   else
      echo "$z is greatest"
   fi
else
   if [ $y -gt $z ]
   then
      echo "$y is greatest"
   else
      echo "$z is greatest"
   fi
fi
```

Sample Output :-

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```
root@Swapnil:~# sh first.sh
Enter three numbers :
45
12
65
65 is greatest
root@Swapnil:~#
```

5. Write a shell program to display the following mark sheets of students by taking the input marks of student through the terminal
Marks range Grade
90>=M<=100 A
70>=M<=89 B
40>=M<=69 C
M<40 F

Code :-

```
echo "Enter Marks : "
read M
if [ $M -lt 100 ]&&[ $M -gt 90 ]
then
   echo "Grade A"
elif [ $M -lt 89 ]&&[ $M -gt 70 ]
then
   echo "Grade B"
elif [ $M -lt 69 ]&&[ $M -gt 40 ]
then
   echo "Grade C"
else
   echo "Grade F"
fi
```

Sample Output :-

```
root@Swapnil:~# sh first.sh
Enter Marks :
56
Grade C
root@Swapnil:~# sh first.sh
Enter Marks :
83
Grade B
root@Swapnil:~# sh first.sh
Enter Marks :
23
Grade F
root@Swapnil:~# sh first.sh
Enter Marks :
99
Grade A
root@Swapnil:~#
```

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