Institute of Engineering & Management
Department of Computer Science & Engineering
Operating System Lab for 3rd year 6th semester 2019
Code: CS 693

Date: 13/02/19

WEEK-3

Assignment-1

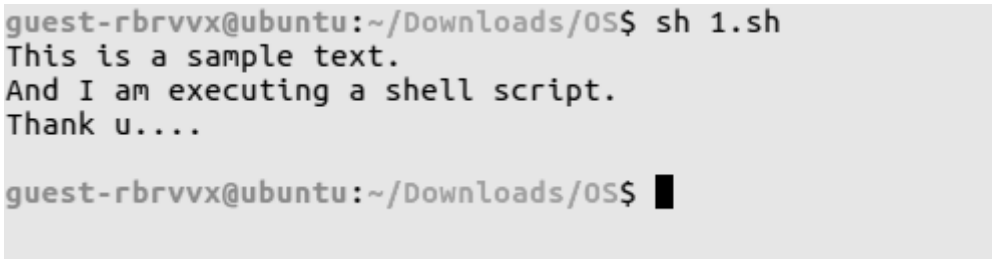
Problem Statement: Write a shell program to display the content of a file after reading the file.

Script:

```
#!/bin/sh

cat who.txt
```

Screen-Shot:



Assignment-2

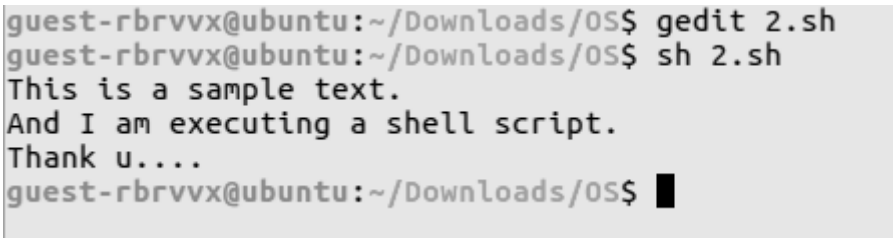
Problem Statement: Write a shell program to display the first three lines of a file.

Script:

```
#!/bin/sh

head -3 who.txt
```

Screen-Shot:



Assignment-3

Problem Statement: Write a shell program to perform the swapping between two numbers taken from user during run-time.

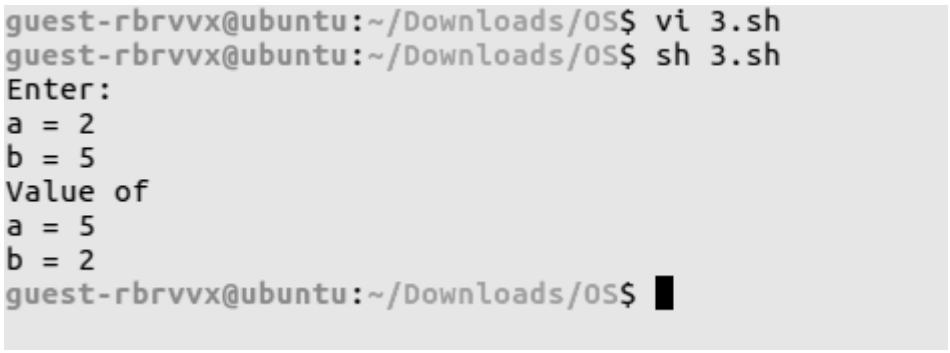
Script:

```
#!/bin/sh

echo "Enter: "
echo -n "a = "
```

```
read a
echo -n "b = "
read b
c=$a
a=$b
b=$c
echo "Value of \na = $a \nb = $b"
```

Screen-Shot:



Assignment-4

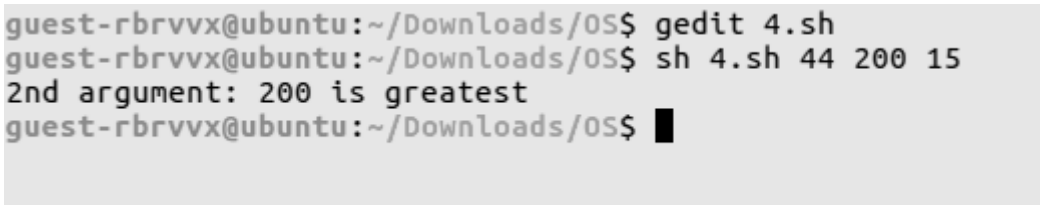
Problem Statement: Write a shell program to print the largest among three numbers by passing the numbers through command line arguments.

Script:

```
#!/bin/sh

if [ $1 -gt $2 ]
then
    if [ $1 -gt $3 ]
    then
        echo "1st argument: $1 is greatest"
    else
        echo "3rd argument: $3 is greatest"
    fi
else
    if [ $2 -gt $3 ]
    then
        echo "2nd argument: $2 is greatest"
    else
        echo "3rd argument: $3 is greatest"
    fi
fi
```

Screen-Shot:



Assignment-5

Problem Statement: 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

Script:

```
#!/bin/sh

echo "     ----Marksheet----"
read -p "Enter the marks of the student: " m
echo " "

if [ $m -le 100 -a $m -ge 90 ]
then
    grade="A"
elif [ $m -le 89 -a $m -ge 70 ]
then
    grade="B"
elif [ $m -le 69 -a $m -ge 40 ]
then
    grade="C"
else
    grade="F"
fi

echo "Grade given: $grade \n\n"
```

Screen-Shot:

```
guest-rbrvvx@ubuntu:~/Downloads/OS$ gedit 5.sh
guest-rbrvvx@ubuntu:~/Downloads/OS$ sh 5.sh
     ----Marksheet----
Enter the marks of the student: 99

Grade given: A


guest-rbrvvx@ubuntu:~/Downloads/OS$ sh 5.sh
     ----Marksheet----
Enter the marks of the student: 47

Grade given: C


guest-rbrvvx@ubuntu:~/Downloads/OS$
```