**LAB 3**

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**SHELL SCRIPTS**

**1.**

read a;

read b;

echo ‘expr $a + $b;

echo ‘expr $a - $b;

echo ‘expr $a \\* $b;

echo ‘expr $a / $b;

echo ‘expr $a % $b;

**2.**

if [ $# -ne 2 ]

then

echo "Usage - $0 x y"

echo "Where x and y are two nos for which I will print sum"

exit 1

fi

echo "Sum of $1 and $2 is `expr $1 + $2`"

**3.**

read a;

read b;

echo Enter 1 for addition, 2 for subtraction, 3 for multiplication, 4 for division, 5 for modulo

read c;

if[ $c = 1 ]

then

echo ‘expr $a + $b’;

elif[ $c = 2 ]

then

echo ‘expr $a - $b’;

elif[ $c = 3 ]

then

echo ‘expr $a \\* $b’;

elif[ $c = 4 ]

then

echo ‘expr $a / $b’;

elif[ $c = 5 ]

then

echo ‘expr $a % $b’;

else

echo Enter number from 1-5;

fi

**4.**

read a;

read b;

if [ $a = $b ]

then

echo both are equal;

elif [ $a –gt $b ]

else

echo $b is greater;

fi

**5.**

ch='y'

while [ $ch = 'y' -o $ch = 'Y' ]

do

s=0

n=0

flag=0

while [ $flag -eq 0 ]

do

echo -n "ENTER THE NO:="

read n

if [ $n -lt 50 ]

then

flag=1

else

echo "NUMBER MUST BE LESS THEN 50"

fi

done

s=0

s=`expr $n \\* $n`

echo "THE SQUARE OF $n IS:= $s"

echo "DO YOU WANT TO CONTINUE PRESS:= Y/N"

read ch

done

**6.**

echo enter command name;

read a;

echo enter value to be expected;

read a;

$a $b;

**7.**

read mon

case $mon in

jan|janu|janua|January) echo January;;

feb|febr|febru|February) echo February;;

mar|marc|march) echo march;;

apr|april) echo april;;

may) echo may;;

jun|june) echo june;;

jul|july) echo july;;

aug|augu|augus|august) echo August;;

sep|sept|septem|September) echo September;;

oct|octo|octob|October) echo October;;

nov|novem|November) echo November;;

dec|decem|December) echo December;;

\*) echo invalid;;

esac

**8.**

read n

echo “FIBONACCI:”

echo “0”

echo “1”

i=0

j=1

cnt=2

while [ $cnt –le $n ]

do

k = ‘expr $i + $j

i = $j

j = $k

echo $k

cnt = ‘expr $cnt +1’

done

**9.**

ANSWER=gandhinagar

CORRECT=false

while [ "$CORRECT" != "true" ]

do

echo "tell the capital of Gujarat.(specify in small letters) "

read capital

if f [ "$cap" -eq "$ANSWER" ]; then

echo "You got the answer correct!"

CORRECT=true

else

echo "Sorry, incorrect."

fi

done

**10.**

echo Enter array limit

read limit

echo Enter elements

n=1

while [ $n -le $limit ]

do

read num

eval arr$n=$num

n=`expr $n + 1`

done

echo Enter key element

read key

low=1

high=$n

found=0

while [ $found -eq 0 -a $high -gt $low ]

do

mid=`expr \( $low + $high \) / 2`

eval t=\$arr$mid

if [ $key -eq $t ]

then

found=1

elif [ $key -lt $t ]

then

high=`expr $mid - 1`

else

low=`expr $mid + 1`

fi

done

if [ $found -eq 0 ]

then

echo Unsuccessfull search

else

echo Successfull search

fi

**UNIX COMMANDS**

1. cat \*.txt
2. gnome-open [www.google.com](http://www.google.com)
3. grep –v and hello.txt
4. Gzip \*.dat
5. Ls –l
6. ls –r
7. export variable=value
8. sort –r filename
9. In public\_html/myfile.txt
10. grep pattern\*