

3a. A

CODE-

 cse16@localhost:~

```
echo "enter 2 numbers-"
read a
read b
c=`expr $a + $b`
d=`expr $a - $b`
e=`expr $a \* $b`
f=`expr $a / $b`
g=`expr $a % $b`
echo $c
echo $d
echo $e
echo $f
echo $g
```

OUTPUT-

```
[cse16@localhost ~]$ sh ex1.sh
enter 2 numbers-
2
2
4
0
4
1
0
[cse16@localhost ~]$
```

3a. B

CODE-


```
echo "enter a year-"
read a
c=`expr $a % 4`
if [ $c -eq 0 ]
then
echo "leap year"
else
echo "not leap year"
fi
```

OUTPUT-

```
enter a year-  
2024  
leap year  
[cse16@localhost ~]$
```

3b. A

CODE-

 cse16@localhost:~

```
echo "enter number"
read a
rev=0
rem=0
while [ $a -gt 0 ]
do
rem=`expr $a % 10`
rev=`expr $rev \* 10 + $rem`
a=`expr $a / 10`
done
echo $rev
```

OUTPUT-

```
enter number
123
321
[cse16@localhost ~]$
```

3b. B

CODE-

 cse16@localhost:~

```
echo "enter number"
read a
f=0
s=1
for((i=0; i<=a; i++))
do
echo -n "$f "
d=$((f + s))
f=$s
s=$d
done
```

OUTPUT-

```
enter number
5
0 1 1 2 3 5 [cse16@localhost ~]$
```