Exp-2a):

AIM: To write a Shellscript to to display basic calculator.

PROGRAM:

```
read n1
read n2
add=$((n1+n2))
sub=$((n1-n2))
mul=$((n1*n2))
if [ $n2 -ne 0 ]; then
    div=$((n1/n2))
    mod=$((n1 % n2))
else
    div="Undefined (division by zero)"
    mod="Undefined (modulus by zero)"
fi
echo "add $add"
echo "sub $sub"
echo "mul $mul"
echo "div $div"
echo "mod $mod"
```

OUTPUT:

```
jagadesh@LAPTOP-33VRBQ67:/mnt/c/Users/Parthiban/OS Exps/shell$ sh calc.sh
10
5
add 15
sub 5
mul 50
div 2
mod 0
```

Exp-2b):

AIM: To write a Shellscript to test given year is leap or not using conditional statement

PROGRAM:

```
read yr
if [ $((yr%4)) -eq 0 ]; then
        if [ $((yr%100)) -ne 0 ]||[ $((yr%400)) -eq 0 ]; then
                echo "Leap year"
        else
                echo "Not a leap year"
        fi
else
        echo "Not a leap year"
fi
```

OUTPUT:

```
jagadesh@LAPTOP-33VRBQ67:/mnt/c/Users/Parthiban/OS Exps/shell$ sh leap.sh
2024
Leap year
```