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/\*1. Write a menu-driven shell script to implement simple calculator with simple operations (add, subtract, multiplication, division)

using select and case statements. Use command line arguments to provide input to the calculator.

Ex: ./calc.sh 4 5

\*/

```
cs1058@splc32:~$ cat script.sh
```

```
x=$1
```

```
y=$2
```

```
select i in "+" "-" "*" "/"
```

```
do
```

```
case $i in
```

```
"+")echo Answer=$((a+b));;
```

```
"-")echo Answer=$((a-b));;
```

```
"*")echo Answer=$((a*b));;
```

```
"/")echo Answer=$((a/b));;
```

```
*) exit;;
```

```
esac
```

```
done
```

```
cs1058@splc32:~$ ./script.sh 4 5
```

```
Answer=9
```

```
Answer=-1
```

```
Answer=20
```

```
Answer=0
```

/\*2. Write a shell script to print the name of the script, number of arguments and the arguments that are passed.

Ex: ./sample.sh ssn 1 collge engineering 2 cse department

\*/

```
cs1058@splc32:~$ cat script.sh
```

```
echo Name of the script=$0
```

```
echo No of arguments=$#
```

```
c=0
```

```
d=$#
```

```
while [[ "$c" -le "$d" ]];
```

```
do
```

```
echo $1
```

```
c=$((c+1))
```

shift  
done

```
cs1058@splc32:~$ ./script.sh ssn college of eng
Name of the script=./script.sh
No of arguments=4
ssn
college
of
eng
```

/\*3. Write shell script to read a text file name and count the number of lines using function.  
Pass the file name as an argument to the function. Return the count and print it

Ex: input: filename  
output: 10

Hint:

```
Function call & return example
function greeting()
{
    str="Hello,$name"
    echo $str
}
echo "Enter your name"
readname
val=$(greeting)
echo "Return value of the function is $val"
File reading example
file='ex.txt'
while read line; do
    echo $line
done < $file
```

\*/

```
cs1058@splc32:~$ cat script.sh
function count()
{
    file=$1
    c=0
    while read line
```

```
do
c=$((c+1))
done < $file
echo No of lines in the file = $c
}
count $1
```

```
cs1058@splc32:~$ ./script.sh file1.txt
No of lines in the file = 5
```

/\*4. Write shell script to read files (check if it is a text file) from current directory and count the number of lines across the files using function.

Ex: files from current directory

c1 is count of file 1, c2 is count of file 2, c3 is count of file 3

If directory contains only 3 files, the output should be c1+c2+c3

\*/

```
cs1058@splc32:~$ cat script.sh
function count()
{
file=$1
c=0
while read line
do
c=$((c+1))
done < $file
echo $c
}
lines=0
for i in *.txt
do
line=$(count $i)
echo No of lines in $i = $line
lines=$((lines+line))
done
echo Total no of lines = $lines
```

```
cs1058@splc32:~$ ./script.sh
No of lines in f1.txt = 2
```

No of lines in f2.txt = 3

No of lines in f3.txt = 4

Total no of lines = 10