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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
*/
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```
cs1050@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
```

```
cs1050@splc32:~$ ./script.sh 4 5
Answer=9
Answer=-1
Answer=20
Answer=0
```

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/*2. Write a shell script to print the name of the script, number of arguments
and the arguments that are passed.
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Ex: ./sample.sh ssn 1 collge engineering 2 cse department
*/
```

```
cs1050@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
```

```
cs1050@splc32:~$ ./script.sh ssn college of eng
Name of the script=./script.sh
No of arguments=4
ssn
college
of
eng
```

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/*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
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Ex: input: filename
output: 10
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Hint:
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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

```

*/

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cs1050@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

```

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cs1050@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

*/

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cs1050@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

```

```
cs1050@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
```