

## Assignment-1 (Lab-1)

1. Implement a calculator using the bash scripts which takes the operands and operator as inputs and return the output. (**Note : Make the operators case sensitive**)

```
>> calculator.sh 2 9 "add"  
  
2 + 9 = 11
```

2. Write a script that takes the directory path as input and returns the number of folders and files as output.

```
>> counter.sh /path/to/directory/  
  
Number of folders : 2  
Number of files : 5
```

3. Write a script to print all the error lines from a log file.

The sample log file is as follows (sample.log)

```
(10 :: 35 :: 20) [INFO] Line 1  
(10 :: 35 :: 21) [DEBUG] Line 2  
(10 :: 35 :: 22) [WARNING] Line 3  
(10 :: 35 :: 23) [ERROR] Line 4
```

```
>> err_parser.sh /path/to/sample.log  
  
(10 :: 35 : 23) Line 4
```

4. Write a script called smart\_find.sh that does the following :

- Accepts two arguments: a directory and a file extension (e.g., .txt).
- Finds all files with that extension inside the directory (recursively).

```
>> smart_find.sh /path/to/directory  
  
Total count of matching files = 10
```