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**Batch : D3**

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* **Comments in shell** : Only # is used for comments. There is no concept like multi line comments in shell.
* **Declare a variable** : x=5
* **Print a variable** : echo $x
* **Evaluation of expressions** : For evaluating expressions, we have 3 options :

1. Using bc - bc stands for basic calculator

Syntax : echo "$a + $b" | bc

echo "$a / $b" | bc #this gives 0 on 3/4

For obtaining floating point numbers, we can use scale which specifies the number of digits after decimal.

For assigning values to a variable, y=`echo "$a / $b" | bc`

2. Using expr - Only for integer expressions.

Syntax : echo `expr $a + $b`

echo `expr $a / $b` #this gives 0 on ¾

For assigning values to a variable : z=`expr $a / $b`

3. Using $((...))

Syntax : echo $(($a + $b))

For assigning values to a variable, w=$(($a / $b))

* **Website for e-books** : website : b-ok.cc
* **Command Line Arguments** : When we need to pass command line arguments during compilation, use bash calculator.sh \*argument1\* \*argument2\* … \*argumentn\*
  + To access the values of variables passed through command line argument, use $1, $2, … , $n in the main program.