A Quick Introduction to Tcl / OTcl / ns-2

Part 1
Tcl
a scripting language
abcd; efg
hi jk
To run a script, Tcl evaluates each command after substitutions.
$a$

is substituted with the value of variable $a$
expr $a + 1
expr 1 + 1
2
\[a \ b \ c \ d\]
is substituted with results after evaluating command \textcolor{blue}{a} on arguments \textcolor{blue}{b}, \textcolor{blue}{c}, and \textcolor{blue}{d}
set c [expr $a + 1]
set c [expr 1 + 1]
set c 2
“a b c d” is substituted with the results after evaluating a, b, c, and d
set c "\$a \$c"
set c "1 2"
just substitute with a b c d
without any evaluation
set c \{a \ c\}
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Part 2
set x {a b c d}
set y {1 2 {3 3.4}}
llength $x
lindex $x 2
lsearch $x c
foreach i $x { 
    puts $i 
}
foreach \{i j\} $x \{ 
    puts "$i : $j"
\}
set a(0) 1
set a(1) 10
set a(100) 3
set b(ftp) 21
set b(http) 80
set b(ssh) 22
foreach {i j} [array get b] {
    puts "$i uses port $j"
}
for {set x 0} {$x < 10} {incr x} {
puts "$x [expr 2**$x]"
}
if \(x > 0\) {
    puts "positive"
} elseif \(x < 0\) {
    puts "negative"
} else {
    puts "zero"