TCL (Tool Command Language)

Small Examples :

Displaying messages and values

puts India
o/p:India
puts “welcome to India”
o/p:welcome to India
puts 58
o/p:58
echo welcome to India
welcome to India

Putting Comments

#this is comment

Displaying values of variables
set x 10
o/p:10
puts $x
o/p:10

set string “welcome to India”
o/p:welcome to India
puts $string
o/p:welcome to India

puts hai ; puts bye
o/p:
hai
bye

set i hai ; set x 5 ; puts "$i $x"
o/p:hai 5

set a 10.00 ; puts “I have $a rupees”
o/p:I have 10.00 rupees

set i hai ; set x 5 ; puts "$i \$x"
o/p:hai $x

puts {hai bye}
o/p:hai bye

set i 5
expr { $i<10 ? ($i+10) : ($i-10) }
o/p:15
set i [expr {$i+1}]
o/p:6

1.if else statment
set i 10
o/p:10
if {$i!=10} { puts "i value is not 10} else {
> puts "i value is 10" }
o/p:i value is 10

if {$x==10} { puts “x value is $x”} else { puts “x value is not $x”}
o/p:x value is 10

2.New Line and Tab
puts "welcome to \n new line"
o/p :welcome to
 new line
puts "welcome to \t tab"
o/p :welcome to tab

3.expr
expr {2==2}
o/p :1
expr {1==2}
o/p :0

4.arrays
set a(0) 56
o/p :56
set a(3) 78
o/p :78
puts $a(0)
o/p :56
puts $a(3)
o/p :78

5.For loop
for {set i 0 } {$i<5} {incr i } {

> puts "welcome $i"
> }
o/p :
welcome 0
welcome 1
welcome 2
welcome 3
welcome 4

6.arrays and for loop
set a(0) 123
o/p :123
set a(1) 234
o/p :234
set a(2) 345
o/p :345
for {set i 0} {$i<3} { incr i} {
> puts "use of arrays in tcl"
> puts $a($i)
> }
o/p :
use of arrays in tcl
123
use of arrays in tcl
234
use of arrays in tcl
345

7.when we use '['
i)
set i 10
o/p :10
set i [set j 20]
o/p :20
puts $i
o/p :20
ii)
set i 10
o/p :10
set i [expr {$i+1}]
o/p :11
puts $i
o/p :11

8.While Loop :
set i 5

```
while {$i<8} {
puts “i is $i”
set i [ expr{$i+1}] }
o/p:
i is 5
i is 6
i is 7
```

9.Switch statement :

```
set i 1
set j 2
set k 3
switch $j { 1 { puts “This is $i” } 2 { puts “This is $j”} 3 { This is $k}}
o/p:
This is 2
```

10.How to write a function

```
proc add {i j} {
set sum [expr {$i+$j}]
return $sum
}
add 2 5
o/p:7
puts "The returned value is [add 12 34]"
o/p:The returned value is 46
```

11.Checking the arguments in the function call

```
proc function { a b {c ""} d} {
if {$a eq ""} { puts "a value is not given" } else {
puts "all arguments are given" }
return "arguments"
}
function 23 34 45 56
o/p:all arguments are given
arguments
```

12.File open and read

```
set count 1
o/p:1
set fptr [open "test.txt" r]
while {[gets $fptr line] >= 0} { puts "line $count---$line"
incr count
}
o/p:
line 1---1234
```

line 2---2345
line 3---3456

13.Time and Date

puts "Now the time is: [clock format [clock seconds] -format %H:%M:%S]"
o/p:Now the time is: 15:28:05
puts "The date is: [clock format [clock seconds] -format %D]"
o/p:The date is: 11/01/2009

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