

11. Write a TCL script to find the factorial of a number

```
proc Factorial {x} {  
    set i 1; set product 1  
    while {$i <= $x} {  
        set product [expr $product * $i]  
        incr i  
    }  
    return $product  
}
```

```
puts "enter any number"  
set a [gets stdin]  
puts [Factorial $a]
```

12. Write a TCL script that multiplies the numbers from 1 to 10

```
proc Table {x} {  
    for {set i 1} {$i<=10} {incr i} {  
  
        puts "$x x $i = [expr $x*$i]\n"  
  
    }  
  
}
```

```
puts "enter any number"  
set a [gets stdin]  
Table $a
```

13. Write a TCL script for Sorting a list using a comparison function

```
set var {orange blue red green}  
set var [lsort $var]  
puts $var
```

14. Write a TCL script to (i)create a list

```
set colorList1 {red green blue}
set colorList2 [list red green blue]
set colorList3 [split "red_green_blue" ]
puts $colorList1
puts $colorList2
puts $colorList3
```

(ii) append elements to the list

```
set colorList1 {red green blue}
puts $colorList1
append colorList1 " " "yellow"
puts $colorList1
```

(iii) Traverse the list

```
set colorList1 {red green blue}
puts $colorList1
append colorList1 " " "yellow"
puts $colorList1
```

```
foreach x $colorList1 {
puts $x
}
```

(iv) Concatenate the list

```
set colorList1 {red green blue}
puts $colorList1
set colorList2 {yellow pink black}
puts $colorList1
```

```
set colorList3 [concat $colorList1 $colorList2]
puts $colorList3
```

15. Write a TCL script to comparing the file modified times.

```
proc newer { fp1 fp2 } {  
  if ![file exists $fp1] {  
    puts "file exists"  
  } else {  
    # Assume file1 exists  
    expr [file mtime $fp1] > [file mtime $fp2]  
    puts "file modification times compared."  
  }  
}  
newer file1.txt file2.txt
```

16. Write a TCL script to Copy a file and translate to native format.

```
proc File_Copy {src dest} {  
  
  set in [open $src]  
  set out [open $dest w]  
  puts -nonewline $out [read $in]  
  close $out ; close $in  
}  
File_Copy file1.txt file2.txt
```