

# TCL Interview Questions And Answers Guide.



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# TCL Job Interview Preparation Guide.

### Question # 1

What is TCL?

#### Answer:-

Tcl (Tool Command Language) is a very powerful but easy to learn dynamic programming language, suitable for a very wide range of uses, including web and desktop applications, networking, administration, testing and many more. Open source and business-friendly, Tcl is a mature yet evolving language that is truly cross platform (windows, all flavors of linux, macintosh), easily deployed and highly extensible.

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### Question # 2

how to increment each element in a list?

eg: `incrlist {1 2 3}`  
`=>2 3 4`

#### Answer:-

// it works like `incrlist 5 6 7 =>> 6 7 8`

```
proc incrlist args {
  set s 0
  foreach s $args {
    incr s 1
    puts $s
  }
}
//for list
proc incrlist list {
  set s 0
  foreach s $list {
    incr s 1
    puts $s
  }
}
```

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### Question # 3

How to run a package in tcl?

#### Answer:-

`source <package_name>`  
(or)  
`package require <name>`

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### Question # 4

How to check whether a string is palindrome or not using TCL script?

#### Answer:-

Code for the above pseudo code. Check if it works!!!!

```
gets stdin a
set len [ string length $a ]
set n [ expr $len/2 ]
for { set i 0 } { $i < $n } { incr i 1 } {
```



```
set b [ string index $a $i ]
set c [ expr $len - 1 - $i ]
set d [ string index $a $c ]
if {$b != $d} {
puts "not a palindrome"
exit
}
}
puts "Palindrome"
```

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### Question # 5

Set ip address as 10.30.20.1 write a script to replace the 30 with 40?

**Answer:-**

here you can do this in multiple ways

```
1.regsub 30 $data 40 a
```

```
puts $a
```

this will give you the replaced string

```
2.string replace $data 3 4 40
```

this also will give you the replaced value

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### Question # 6

How increment a character? For example, I give a and I should get b?

**Answer:-**

```
set character "a"
```

```
set incremented_char [format %c [expr {[scan $character
%c]+1}]]
```

```
puts "Character before incrementing '$character' : After
incrementing '$incremented_char'"
```

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### Question # 7

How to extract "information" from "ccccccaaabbbbaaaabbinformationabcaaaaaabbbbbccbb" in tcl using a single command?

**Answer:-**

```
% set
```

```
a "ccccccaaabbbbaaaabbinformationabcaaaaaabbbbbccbb"
```

```
ccccccaaabbbbaaaabbinformationabcaaaaaabbbbbccbb
```

```
% set b [string trimleft $a "abc"]
```

```
informationabcaaaaaabbbbbccbb
```

```
% set c [string trimright $b "abc"]
```

```
information
```

```
OR..
```

```
% set output [string trimright [string trimleft
```

```
$a "abc"] "abc"]
```

```
information
```

```
%
```

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### Question # 8

How to Swap 30 & 40 in IP address 192.30.40.1 using TCL script?

**Answer:-**

There are three solutions.

```
set a 192.30.40.1
```

```
set b [ string range $a 3 4 ]
```

```
set c [ string range $a 6 7 ]
```

```
set d [ string replace $a 3 4 $c ]
```

```
set e [ string replace $d 6 7 $b ]
```

```
puts $e
```

```
===OR===
```

```
set a 192.30.40.1
```

```
set b [ split $a . ]
```

```
set u [lindex $b 0]
```

```
set v [lindex $b 3]
```

```
set x [lindex $b 1]
```

```
set y [lindex $b 2]
```

```
set z [join "$u $y $x $v" . ]
```

```
puts $z
```

```
===OR===
```

```
set ip 192.30.40.1
```

```
regexp {[0-9]+}([0-9]+)([0-9]+)([0-9]+) $ip match 1st 2nd 3rd 4th
```

```
append new_ip $1st $3rd $2nd $4th
```

```
puts $new_ip
```



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### Question # 9

How do you find the length of a string without using string length command in TCL?

#### Answer:-

```
set str "lengthofthisstring"
set len 0
set list1 [ split $str "" ]
foreach value $list1 {
incr len
}
puts $len
```

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### Question # 10

How TCL works?

#### Answer:-

After TCL installed on the machine, TCL information got registered in the machine.

e.g:In Windows Registry

```
[HKEY_LOCAL_MACHINESOFTWAREActiveStateActiveTcl]
```

The TCL path is updated in Machine environment.

e.g:

```
PATH=C:/Tcl/bin;%PATH%
```

Then TCL starts working.

1.TCL a Scripting Language. TCL binary comes with name "tclsh".

When we use TCL,[ For example from Command prompt/Terminal try to run tclsh ] it provides default prompt "%" to User and asks for input.

```
#tclsh
```

```
%
```

How TCL works??

-----  
Each input from user is treated as TCL command.

After providing the command, tclsh fetch(gets) that command and try to validate/compile/execute and populate(puts) the message.

```
#tclsh
```

```
% hello
```

```
invalid command name "hello"
```

```
% set
```

```
wrong # args: should be "set varName ?newValue?"
```

```
%set say "Hello"
```

```
Hello
```

2. When we use TCL, we can provide a Script file as argument.

Example: Create a file "HelloTickle.tcl" containing:

```
set say "Hello"
```

```
puts $say
```

```
Execute:
```

```
#tclsh HelloTickle.tcl
```

```
Hello
```

How TCL works??

-----  
Tcl takes the Argument as a file and try to read the file.

TCL stores the file in memory and reads the file Line by

Line and try to validate/compile.

TCL provides the output and release the memory.

```
-----
```

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### Question # 11

Where can we find the sample tcl programs?

#### Answer:-

Please use below link to get the TCL tutor.

There are links to other online tutorials at

```
http://www.msen.com/~clif/Tcl.html
```

[Read More Answers.](#)

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