

Lab2.0

Objectives: -

After completion of this lab activity the student will be able to manipulate lists by using **lappend**, **lindex**, **linsert**, **llength**, **lrange**, **lreplace**, **lsearch**, **concat**, **join** and **split** commands as well as loops as While, for and foreach

Steps: -

- 1) Create a tcl script named lab2_0.tcl
- 2) Display on the screen the following message
 - ******* List Operations Lab*******
- 3) Create a list with name "lst0" using **list command** with the contents of Jan Mar April May
- 4) Create a list with name "lst1" using **curly braces** with the contents of June July August
- 5) Display lst0 content.
- 6) Display lst1 content.
- 7) Display the length of lst0 as follow >> Length of lst0 : 3
- 8) Display the third item in lst1 as follow >> Third item of lst1 : Jun
- 9) Check if Oct item exists in lst1 or not using **lsearch command**, if existed display, "Oct is existed in the list" else display "Oct not existed in the list"
- 10) Insert in lst0 "Feb" element in 2nd location using **linsert command**.
- 11) Display lst0 content.
- 12) Insert at the end of lst1 "Sep Oct Nov Dec" elements using **lappend command**.
- 13) Display lst1 content.
- 14) Concatenate the 2 lists in 1 list named "list2"

- 15) Display all the elements of list2 using [lrange command](#)
- 16) [Display the content of](#) list2 joined and separated by “ , “ separator as follow: -
 - Jan, Feb, Mar, April, May, June, July, August, Sep, Oct, Nov, Dec
- 17) Use for loop to display the Uppercase version of all the contents of the list0 (assume that you don't know the number of it list).
- 18) Use foreach loop to display the lowercase version of all the contents of the list1