**Linear Search Algorithm**

1) Start.

2) Input the number of elements (a) in the list.

3) If ‘a’=negative, print ("The number of elements of the list cannot be negative") and stop.

4) Initialize an empty list (list\_A).

5) For each ‘y’ in range(0,a):

* Get elements of list\_A by the user input.
* Append the elements to list\_A.

6) Input the target element that we are going to search.

7) Mark the point to be as flag=0.

8) For every index ‘y’ in list\_A:

* If the element at ‘y’ is same as the target element:
  + - * Mark the point to be as flag=1.
      * Print the position of the element as ‘y’.
      * Break the loop and come out of it.

9)After coming out of the loop, check for the value of flag:

* If flag=0, then print( "The target element is not found in list\_A").

10) End.