**Finding an element in the list**

***Algorithm***

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| --- | --- |
| **Step 1** | Start Process |
| **Step 2** | Assign mylist elements with [7,5,1,2,3] |
| **Step 3** | Read number to be found from user and store in number |
| **Step 3** | Assign i = 0 and length\_of\_mylist = 5 and found = 0 |
| **Step 4** | Assign cur\_val as mylist[i] |
| **Step 5** | If cur\_val = number then assign found as 1 |
| **Step 6** | Increment i by value 1 |
| **Step 7** | If i is less then length\_of\_mylist then goto Step 4 |
| **Step 8** | Else goto Step 9 |
| **Step 9** | If found is equal to 1 then print “Found” and goto Step 11 |
| **Step 10** | Else print “Not found” |
| **Step 11** | Stop Process |

***Flow Chart***

***Pseudo Code***

START

SET my\_list = [7,5,1,2,3]

READ number

SET length\_of\_mylist = 5

SET i = 0

SET found = 0

WHILE i is less than length\_of\_mylist THEN

SET cur\_val = mylist[i]

IF number = cur\_val THEN

found = 1

ELSE

found = found

END IF

INCREMENT i

END WHILE

IF found = 1 THEN

PRINT “Found”

ELSE

PRINT “Not Found”

STOP