Theory -

-> Here the given data is a linear array with N elements and items is a given item of information.

> It the element in array matches with the search element then return index value, otherwise return'-1'.

Algorithm-

This algorithm finds the location Loc of item in data or sets Loc=0 if the search is unsuccessful.

- 1. [Insert ITEM at the end of DATA] SET DATA [N+1]=ITEM
- d. [Initialize Counter] det 10c=1
- 3. [Search for ITEM]

 Repeat While DATA[LOC] \$ ITEM

 Set LOC=LOC+1

[END LOOP]

- 4. [Successful] It LOC=N+1, then set LOC=0
- 5. Exit

	Process-
*	Let us take an array of 5 elements = {23,45,12,78,88
*	Suppose the user went to find element is in the array (p212)
	First iteration of loop-
	i.e a3 == 12
	Not true
*	Lecond iteration of loop-
	$\alpha(1)=p$
	i.e 45==12
	Not true
*	Third iteration of loop-
	a[a]==P
	î.e 12212
	True
	1 1 and Ama brooks
	Hence we will get the elements as found and loop breaks
	(- l-
	Code-
	my list = [1,5,8,18,25,37]
	pivot=int(input("fnter a number"))
	ten i in muslist:
	tor i in myalist: if pivot==i:
	11 +fag=1
	break
	else:
	#ag=0
	i+ *w ==1:
	Hag

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