3. Selection Sort

Theory -

- > Searching through the list of elements is the main algorithm of this sorting.
 - -> It swaps smallest element with the first element.
 - -) And repeats above process upto end of list

This algorithm sorts the array with N elements. Algorithm-

- 1 Repeat steps a and 3 for K=1,2,..., N-1
- 2. (all MIN(A,K,N,LOC)
 - => An array A is in memory. This procedure finds the location Loc of the smallest element among ACKI, ACKHI, A[N] (1) Set MIN=ACKI and LOC=K [IniHalize pointers]
 - (ii) Repeat for J=K+1, K+2,....N
 - If MINZACII then set MIN= ACI) and LOC=ACI], LOC=I

[End of loop]

iii) Return

- 3. Interchange A[K] and A[LOC] Set Temp= A[K] A[K]= A[LOC] and A[LOC]=temp [End of step! loop]
- 4. Exit.

	Process-
*	Let us take an array of five elements Az {9,36,8,46,7,56}
*	selection sort Method-
	The control of the co
	29,36,8,48,7,56} After getting min- {7,36,8,48,9,56}
	lii) second iteration-
	\$7,36,8,48,9,568
	After getting min- { 1,8,36,48,9,56}
	iii) Third Ateration -
	27,8,36,48,9,563
	After getting min- { 1,8,9,48,36,56}
	(1) 5) 1) (0) 50 5
	After getting min - { 7,8,9,36,48,56}
	W) Fifth Steration -
	27,8,9,36,48,563
	After getting min = { 7,8,9,36,48,56}
	* After (n-1) îteration we will get sorted array.

Output -

The state of the s

[0,1,2,3,7,13,14]

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Theorem The Control

		print(a)	acij, acvalue] = acvalue], acij	121+1	if acidemin i:	while (j <n):< td=""><td>min 1 = acid</td><td>for ? in range (n-i):</td><td>n= 100 (a)</td><td>Code-</td><td></td></n):<>	min 1 = acid	for ? in range (n-i):	n= 100 (a)	Code-	

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