

	+ Assignment No. 44
	AIM: to Bort an array using selection & bubble
	Sost.
	OBJECTIVES! -
	to sost array of Hoating point number in
	ascending of order wing.
	@ selection Bort.
	6) Bubble sort and displaying top five 8 (oris,
	·
	B'PROBLEM STATEMENT:-
	write a python program to store first year percentage
	of student in array, corite a function jor sorting
	array exploating point number in a sending order wing.
	a selection sort
	(b) Bubble sort.
	and display top five score.
	INPUT "-
	O 3136 of array element of array
	@ percentage /marix of student.
	outrome:-
	Otop scrorce q students.
	@ sorted array.
4	Theory
	Heray!
	An array is a collection of item stored at
	Contignous memory location. The idea is to Store
	mætipie item et.

the same type tegether. the makes it easier to a landarde the position of each other elements by Simply adding an to a base value i.e the memory location of the first element of the array

for simplicity we can think of an array of that where on each step is place a value. Here you can identify the location of any of your friend by simply knowing the Count of the step they are on. array can be handled in python by 9 module named array.

## slection Soft :-

the selection sort algorithm sorts an array by reped dy finding the minimum element considering the accentury order force the uncorted part & putting

the algorithm maintain two subarray in a given array

(1) Already sorted array

(2) Remaining to sort array.

In every iteration of the selection sort, the minimum element Considering ascending order form the un corted substaray is pilted and moved to the stored array.

Bubble 80x+:-

Bubble 80st is the simple Sorting algorithm that work by repeatifully swapping the adjacent element if they are in wrong order. This algorithm is not switche for large data set as it are age & and work contime complexity is quite high.

(See Ar	Algorithm:
prist A.	1. start
e guir si f	2. Take any array or input  3. Define function for selection sort & Bubbles at  4. Apply or call function for array that is taken  as input:
	3. Define function for selection sort a Bubble sax
- Secondario	4. Apply or call function for array that is taken
- The second	
-	5. Display, the Sorted array.
Colonia School	6 stop
-	
A	Pseudo Code of Main Junction:
-	Oscietion sort.
STATE	- Initialize the minimum value to location o.
Providence and Associated	element in array.
Commercial	
ANTIGUADO COSOS	Min value is found the swap both values.
Section of page 1 and 1	- The cincrement min - Value to print to the next.
Company State of	· element
ACCOUNTAGE OF THE PERSON OF TH	- Repeat witill the array is sorted.
Contractor of the Contractor	
Contraction of the Contraction o	@ Bubble 8017;
Charles Control	- pun a rested logp to teansverse the input array.
And the second library	wing two variable is 1,8 uch that ox i (n-16)
	0<1<0-11.
-	- If orr [i] is greater than are [j+1] then swap.
Delical Commission	thos adjacent element i else move on
-	- print the sorted array.
-	
Conservation Spinster, co.	Condustan-
-	In this way, we can poyonm sorting of an
-	array wing selection & bubble soft.