SLIIT
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BSc (Hons) in Information Technology
Year 2
Data Structures and Algorithms – IT2070

Lab Exercise 6 – Bubble Sort   **2023**

Question

Bubble Sort is a popular sorting algorithm. It works by repeatedly swapping adjacent elements that are out of order.

a) Write the pseudo code of the bubblesort algorithm

b) Implement the bubblesort algorithm.

c) Read 8 numbers from the keyboard and store them in an array. Sort the numbers using the bubble sort algorithm.

d) Find out the time complexity of bubble sort in Big O Notation.

```
#Write the pseudo code of the bubblesort algorithm

BUBBLESORT(A)
for i=1 to A.length-1
   for j=A.length downto i+1
     if A[j]<A[j-1]
        exchange A[j] with A[j-1]
```