**Assignment 1**Pseudocode and Flowchart for Sorting Algorithm - Write pseudocode and create a flowchart for a bubble sort algorithm. Provide a brief explanation of how the algorithm works and a simple array of integers to demonstrate a dry run of your algorithm. in java

**A)** START

DECLARE array [ ] ← [5, 2, 9, 1, 5, 6]

DECLARE n ← length of array

DECLARE i, j, temp

FOR i FROM 0 TO n - 2 DO

FOR j FROM 0 TO n - i - 2 DO

IF array[j] > array [j + 1] THEN

temp ← array[j]

array[j] ← array [j + 1]

array [j + 1] ← temp

END IF

END FOR

END FOR

DISPLAY sorted array

END