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

***Algorithm explanation :***

1. Start

2. Read n, the array size

3. Read the elements of array A[]

4. i value varies from 1 to n-1. For each value of i do steps 5 to 8.

5. j value varies from 0 to n-i-1. For each value of j do steps 6 &

7.

6. Check jth element is greater than (j+1)th element. If yes, swap them.

7. j-j+1

8. i=i+1

9. Print the sorted array A[]

***Pseudocode:***

Algorithm BubbleSort()

{ Read n, the array size

Read the elements of array A[]

for i=1 to n-1 do

{for j=0 to n-i-1 do

If A[j]>A[j+1] then

{

temp=A[j]

A[j]=A[j+1]

A[j+1]=temp

}

}

}

}

Print the sorted array A[]

}

