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.

Dry Run:

Unsorted array: 9 5 4 3 7

Compare 9 and 5 as 9>5 so, we will swap it

5 9 4 3 7

Now, compare 9 and 4 as 9>4 so, we will swap it

5 4 9 3 7

Again,compare 9 and as 9>3 so, we will swap it

5 4 3 9 7

Again,compare 9 and 7 as 9>7 so, we will swap it

5 4 3 7 9

Again, compare 5 and 4 as 5>4 so, we will swap it

4 5 3 7 9

Again, compare 5 and 3 as 5>3 so, we will swap it

4 3 5 7 9

Again, compare 5 and 7 but 5<3 so, number after 5 is shorted and we have start again

And now, compare 4 and 3 as 4>3 so, we will swap it

3 4 5 7 9

Again, compare 4 and 5 but 4<5 so, number after 4 is shorted.

Hence we get our shorted array