**SRM INSTITUTE OF SCIENCE AND TECHNOLOGY, Kattankulathur**





**School of Computing**

**21CSC201J – Data Structures and Algorithms**

**Topic: Traversal and Searching in an Array**

**Activity: Fill the missing Pseudocode**

**Algorithm for array traversal**

 Step 1 : [INITIALIZATION] SET I = 1 (or 0, depending on indexing convention)

 Step 2 : Repeat Steps 3 to 4 while I <= N (or I < N if 0-based)

 Step 3 : Apply Process to A[I]

 Step 4 : SET I = I + 1  
[END OF LOOP]

 Step 5 : EXIT

**Activity: Fill in the blanks**

1. To access each element of an array, we use a **loop**.
2. Array traversal typically starts at index **0**.
3. The last index of an array with n elements is **n - 1**.
4. While traversing an array, we must ensure the index does not go out of **bounds**.
5. If we want to traverse an array in reverse, we start from index **n - 1**.