

# SRM INSTITUTE OF SCIENCE AND TECHNOLOGY, Kattankulathur

## School of Computing

### 21CSC201J – Data Structures and Algorithms

#### Topic: Fundamentals of Arrays and their Operations

#### Activity: Fill in the Blanks

1. An array is a collection of elements stored in different memory locations.
2. The index of the first element in an array is usually 0.
3. To access the 5th element in an array named arr, we use arr[4].
4. The operation to add an element at the end of an array (in dynamic arrays) is called reserved space.
5. The process of finding the position of an element in an array is known as searching.
6. Inserting an element in the middle of an array requires shifting the elements.
7. Arrays in C are declared using the [ ] operator followed by the size in square brackets.
8. A two-dimensional array has two dimensions and is often used to represent matrices.
9. Arrays store elements of the same data type.
10. The number of elements an array can hold is known as its length.
11. Arrays can be one-dimensional or multi-dimensional.
12. The operation to remove an element from a specific position in an array is called deletion.
13. In C, the array index must always be a(n) non-negative value.
14. Arrays are fixed in size once declared in static programming languages like C.
15. A loop commonly used to traverse an array is the for loop.