* Array: -

**What are Arrays: An array in C++ is a collection of elements of the same data type, stored in contiguous memory locations. Arrays allow you to store multiple values under a single variable name and access them using an index**.

* difference between single-dimensional and multidimensional arrays.

| **Feature** | **Single-Dimensional Array** | **Multi-Dimensional Array** |
| --- | --- | --- |
| Structure | Linear (1 row) | Grid-like (rows and columns) |
| Declaration Example | int arr[5]; | int arr[2][3]; |
| Indexing | One index: arr[i] | Two or more indices: arr[i][j] |
| Use Case | Simple lists | Tables, matrices, 2D games |