Array:

* It is an indexed collection of fixed number of homogeneous data elements.
* The main advantage of arrays is, we can represent huge number of values by using single variable, so that readability of the code will be improved.
* But the main disadvantage of arrays is fixed in size i.e. once we create an array; there is no chance of increasing or decreasing the size based on our requirement.
* Hence to use arrays concept compulsory we should know, the size in advance, which may not possible always.

Array Declaration

* One Dimensional Array Declaration:

|  |  |
| --- | --- |
| **int**[] x;  **int** []y;  **int** z[]; | All are correct only but the first one is recommended because name of the variable clearly separated with the type and size. |
| **Int[6] x;**  **invalid** | At the time of declaration we can’t specify the size; otherwise we will get compile time error. The size can be declared at the time of creation. |

Two Dimensional Array Declarations:

|  |  |
| --- | --- |
| **int**[][] x;  **int** [][]y;  **int** z[][];  **int** []x1[]; | All are valid but the first one is recommended. |