CYDEO

Array

Array

- Special type of Variable
- Hold multiple values of the same data type
- Size is fixed
- Supports both primitives & non-primitives
- Every Element has index numbers





Declaring arrays

There are 2 ways to declare one-dimensional arrays:

1. Specify the type, and then specify square brackets [] and finally array variable name.

2. Specify the type, and then specify the array variable name which is followed by square brackets [].

```
int[] scores;
String[] names;
Student[] students;
```

```
int scores[];
String names[];
Student students[];
```



Instantiating arrays

To instantiate one dimensional array, use the keyword new, followed by type and then finally specify the size within square brackets []

1. Declare and instantiate in separate statements

```
int[] scores;
scores = new int[4];
```

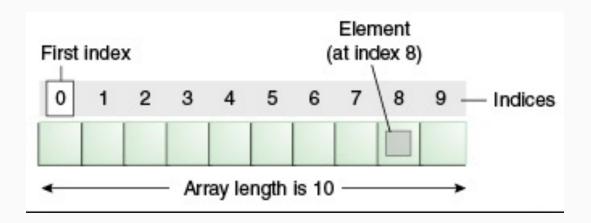
2. Declare and instantiate in single statements

```
int[] scores = new int[4];
String[] names = new String[5];
```



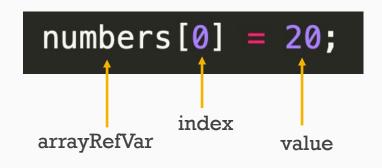
Accessing Array Elements

- Elements of an array can by accessed by using the square brackets [].
- Index number needs to be provided

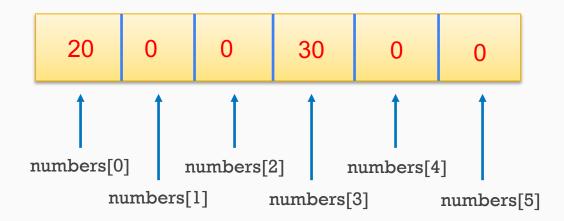




Assigning values to Array Elements



numbers[3] = 30;





Array Initialization

 Like regular variables, Java also allows you to initialize an array's elements when you create the array

```
int[] myList = {1,2,3,4,5};
```

