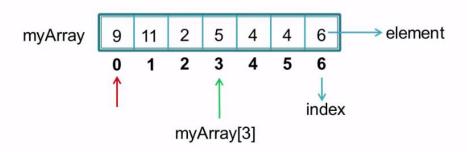
#### Arrays

Container object that holds fixed # values of single type



# Creating an Array

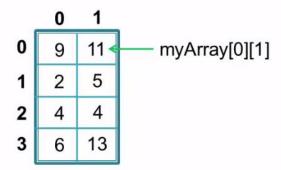
- int[] myArray = new int[7];
  - Each element gets default 0
- myArray[0] = 9;
- myArray[1] = 11;
- myArray[2] = 2;
- myArray[3] = 5;
- myArray[4] = 4;
- myArray[5] = 4;
- int[] myArray = new int[]{9, 11, 2, 5, 4, 4, 6};
- int[] myArray = {9, 11, 2, 5, 4, 4, 6};

- length
  - myArray.length → 7
- ▶ Accessing outside array boundary → runtime error
  - int item = myArray[7]; // runtime error

### Array of Object References

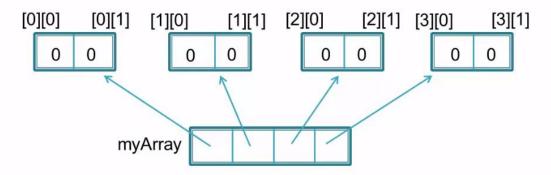
- Student[] students = new Student[2];
  - students[0] & students[1] → null
- students[0] = new Student(); students[1] = new Student();
- students[0].name = "john"; students[1].name = "raj";

#### 2D Arrays



## Creating a 2D Array

- int[][] myArray = new int[4][2];
- int[][] myArray = new int[4][2];



#### 2D Array Creation & Initialization