Java

Agenda

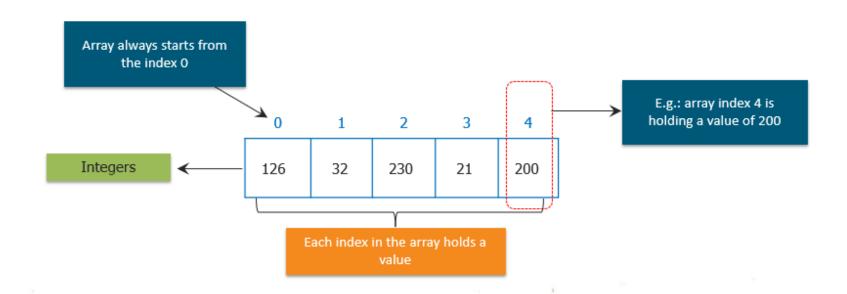
- Arrays
- Single Dimensional Array
- Multi Dimensional Array

What are Java Arrays?

- An array is a container object that holds a fixed number of values of a single type.
- The length of an array is established when the array is created. After creation, its length is fixed.
- There are 2 types of arrays
 - 1. Single Dimensional
 - 2. Two Dimensional(Double Dimensional)

Single Dimensional Array

- Declare array
- Insert values into array
- Find the size of array
- How to read/access values from array



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Multi Dimensional Array

- Declare array
- Insert values into array

```
int [][]a= new int [2][2];
```

- Find the size of array
- How to read/access values from array

```
char [][]a= new char[3][2];
```

float [][]a= new float[5][5];

0	1	
1	4	
4	5	

2 x 2 dimensional int array

	0	1
0	S	а
1	g	V
2	V	d

	0	1	2	3	4
0	2.2	3.4	5.0	3.3	1.2
1	7.8	9.0	1.1	2.9	5.5
2	2.0	3.0	7.8	9.8	9.9
3	5.7	6.6	8.8	5.3	2.7
4	1.8	4.4	7.6	1.0	1.1

5 x 5 dimensional float array

Assignment (Arrays)

- 1. Write a Java program to calculate sum values of an array.
- 2. Write a Java program to calculate average of values of an array.
- 3. Write a Java program to print even and odd numbers in an array.
- 4. Write a Java program to find missing number in an array.
- 5. Write a program to find greatest and smallest element in an array.
- 6. Write a program count multiples of a number in an array.
- 7. Write a program to check equality of arrays.
 - Using for loop
 - Uisng Arrays.equals() method
- 8. Add two matrices using 2 dimensional array