

Java Array Basic

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Array

- ★ Why Use Array? And What is Array?
 - ★ Features of Array.
 - ★ Syntax of Creating, Initializing and Accessing an Array?
 - ★ Declaration and Use of Array.
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★ Why Use Array? And What is Array?

—Why Use Array?

- Arrays are used to store multiple values in a single variable, instead of declaring separate variables for each value.
- Providing a single name for multiple variables: A software designer may find it challenging to organize multiple variables without using a specific tool like an array.
- Arrays help maintain large sets of data under a single variable name to avoid confusion that can occur when using several variables.

What is Array?

- Arrays are objects which stores multiple variables/object of same type. It holds primitive values (like int, float, long, double) as well as Non-Primitive(like student class object) references.

★ Features of Array?

- Array size is fixed.
- Array is an object in Java.
- Array created during runtime on heap in java.
- Array index starts from zero.

★ Syntax of Creating, Initializing and Accessing an Array?

Declaration syntax of Array :-

```
data_type[] arrayName;
```

Declaration and Initialization syntax of Array :-

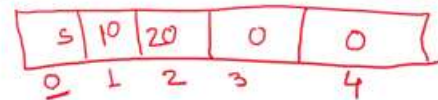
```
data_type[] arrayName = new data_type[size];
```

```
int[] array;
```

```
int[] array1 = new int[100];
```

```
int[] intValue = new int[10];  
intValue[0] = 5;  
intValue[1] = 10;  
int value[2] = 20;
```

```
int[] intArray = new int[5];
```



★ Declaration and Use of Array.

- Normally add element in array and print it?
- Add element in array and print array element using for loop?
- Primitive and Non Primitive Array ?
- Pass array to Method and return array from method?

Thank you

