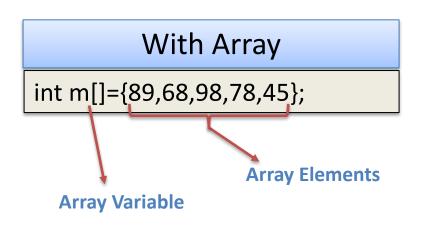
Array



• **Array** is the collection of similar type of data with contiguous memory allocation.

Without Array int m1=89; int m2=68; int m3=98; int m4=78; int m5=45;



Steps for Array Creation



```
Step 1- Array Declaration
```

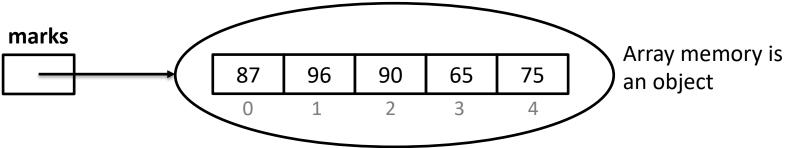
int marks[]; or int []marks;

Step 2- Array Memory Creation

marks=new int[5];

Step 3- Array Initialization:

```
marks[0]=87;
marks[1]=96;
marks[2]=90;
marks[3]=65;
marks[4]=75;
```



Note:

Array indexing starts from 0. Because by default array variable refers the first block of the memory. That's why to access first block, we need to add 0 to current address and to access second block, we need to add 1.

Array Creations



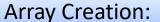
Array Creation:

int marks[]= new int[5];
marks[0]=87;
marks[1]=96;
marks[2]=90;
marks[3]=65;
marks[4]=75;



Array Creation:

int marks[]= new int[]{87,96,90,65,75};



int marks[]= new int[5]{87,96,90,65,75};



int marks[]= {87,96,90,65,75};

Array Creation:

int marks[]; marks={87,96,90,65,75};









Accessing an Array



We can access array using two loop controls:

- 1. Normal for loop
- 2. for-each loop

```
int marks[]={89,68,98,78,45};
for(int x:marks) {
         System.out.println(x);
}
```

Note:

'marks.length' property return the number of elements in array.