Asrays = always stored continuously.

Size of arr = data type xro. of elements 4×4=16 Indering always from O. = no. of elements. length of arr = arr. length

Declarations of array.

The array of array size

out aux I = new int [10];

where the single days

of all

ofologe

of array. RHS = 40 bytes continuous memory. LHS = type & ass name.

thus cht] = new chart 10]; 7 mill [] en v double 6]d = new double[10]; > 0.0 are W boolean [Jb = new booleant 10] > false Take ist marry:

"ut asut] = new "ut [:5]; 0 1 2 5. 8 8 8 9 9 1 5 2 4 8 1 0 = 5; forfiret i=0°, i < all length; i+1){

are [i]

Syso (areti);

Array work on references. > 9 gf we try to access an invalid indes then it will show error out of bound inde. > indoning an't be -ve, start from [0-(0-1)] > By defautt all' underes mill be zero (0) int 3 double - 0.0 7 character, mill 3 boolean-false.

out n = S. neret Jutu int arrel 2 new arrely; stored in arrays. trow data Late type 10-46ytes Non-primilia Krimithus 7 accomps twic Stringt 5 du > Scannel , double 7 boolean etc.

out arres = new aint [5] ars is seference, than direct name. adduss of assay. > () I @ 42 a 572 b

```
arrij - elements
i. - uder.
```

```
public static void main(String[] args) {
   int arr[] = {1,2,3,4,5};
   int arr2[] = {2,4,7,8};
   System.out.println(arr);
   System.out.println(arr[0]);
   System.out.println(1);

   System.out.println(arr2);
   System.out.println(arr2[3]);
   System.out.println(4);
```

```
Output

java -cp /tmp/6FFKUd
[I@379619aa
1
1
[I@123a439b
8
4
=== Code Execution S
```

```
class HelloWorld {
   public static void main(String[] args) {
      int i = 10;
      increment(i);
      System.out.println(i);
   }
   public static void increment(int if{
      i++;
   }
}
```

```
of P-10
```

```
class HelloWorld {
  public static void main(String[] args) {
    int inp[] = {1,2,3,4,5};
    increment(inp);
    for(int i = 0; i < inp.length; i++){
        System.out.println(inp[i]);
      }
  }
  public static void increment(int arr[]){
    for(int i = 0; i < arr.length; i++){
        arr[i]++;
    }
  }
}</pre>
```

:. Same nemory shared by both nam I indement

## Garsage Collector

-> array has a garbage collector, so that memory which is not in use is deallocated.

axx 7 0 0 0 0 0