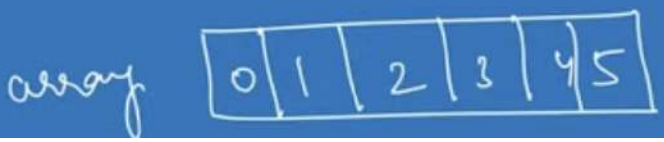
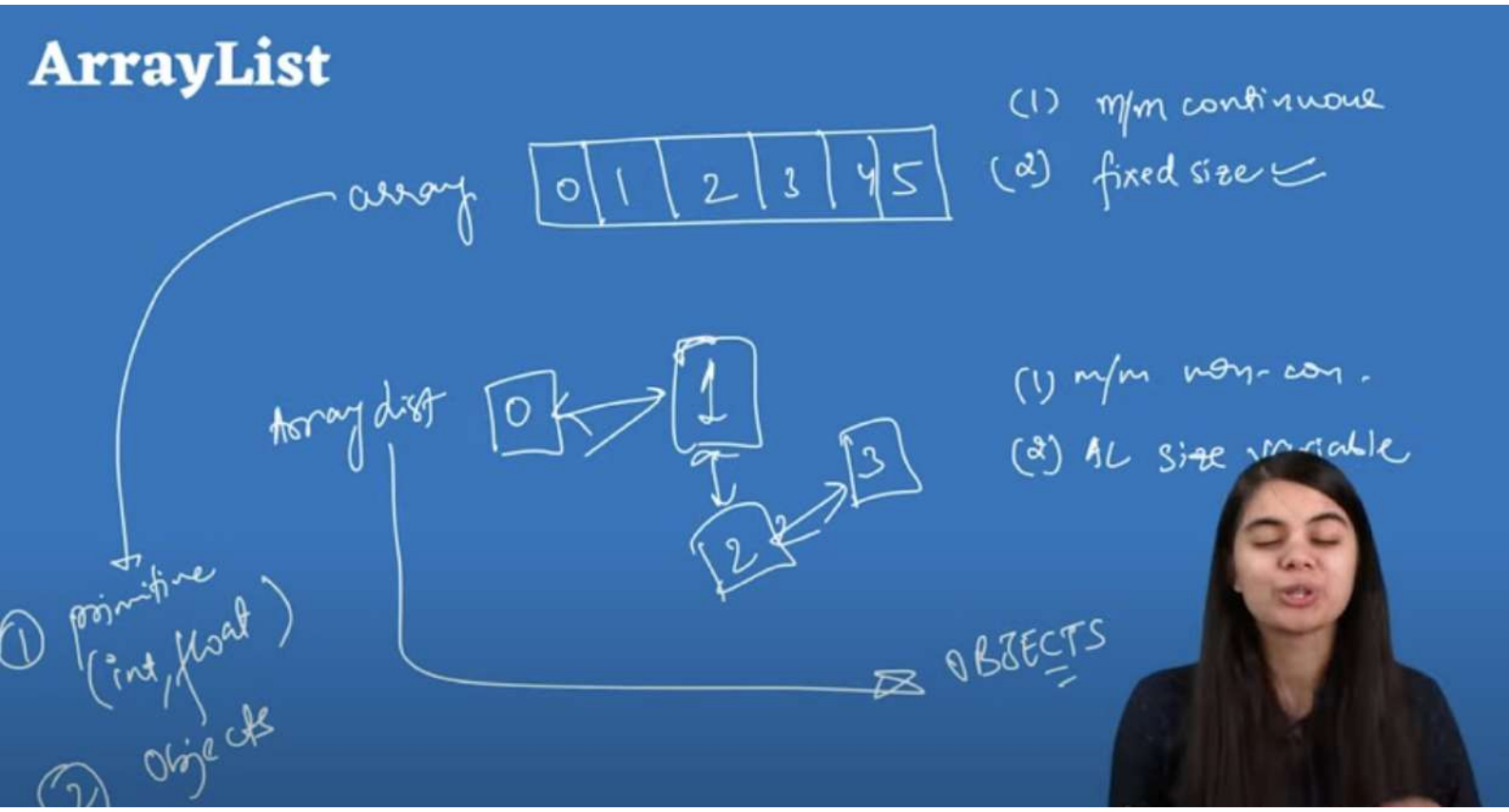
ArrayList

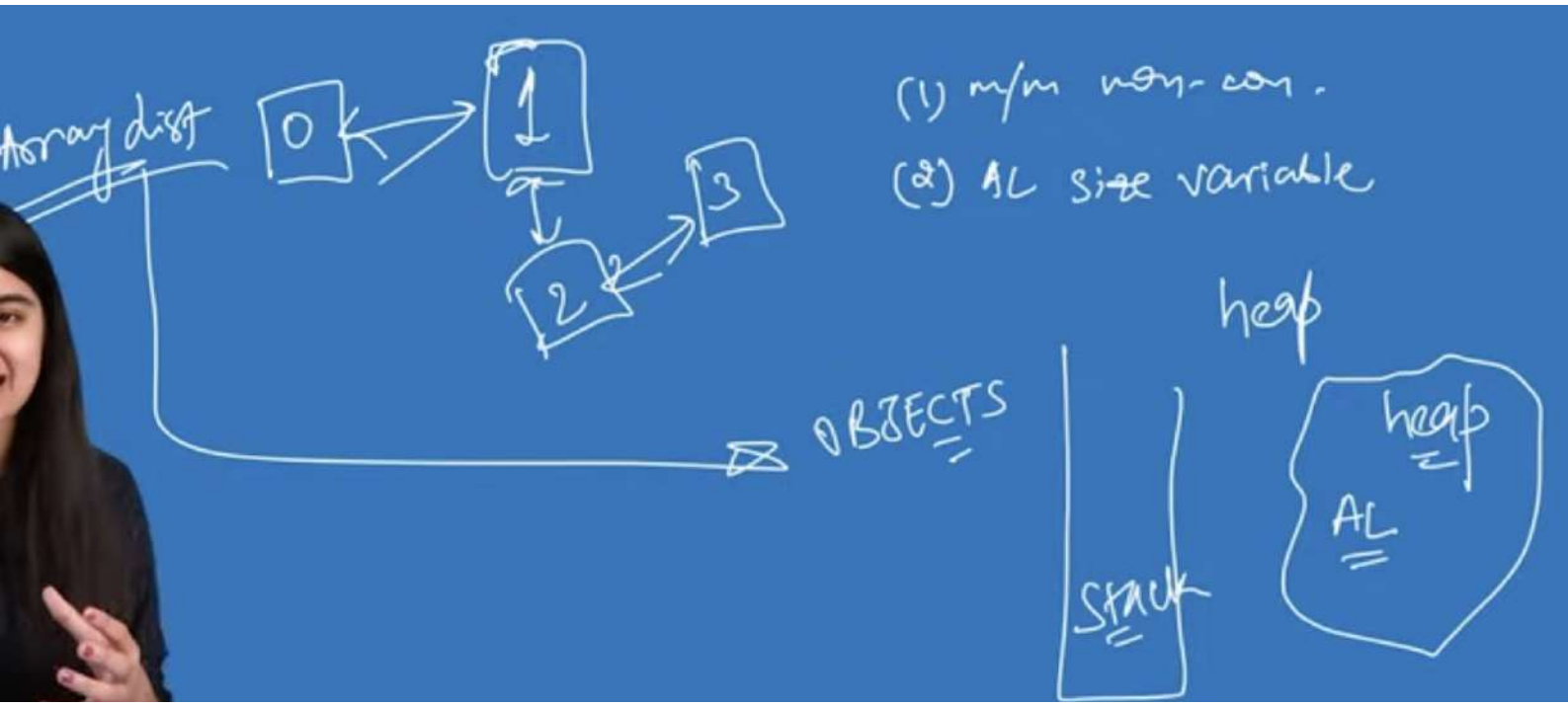


(1) m/m continuous

(2) fixed size

ArrayList


array
0 1 2 3 4 5
(1) m/m continuous
(2) fixed size
array list
0 1 2 3
(1) m/m non-con.
(2) AL size
OBJECTS
(1) primitive (int, float)
(2) Objects

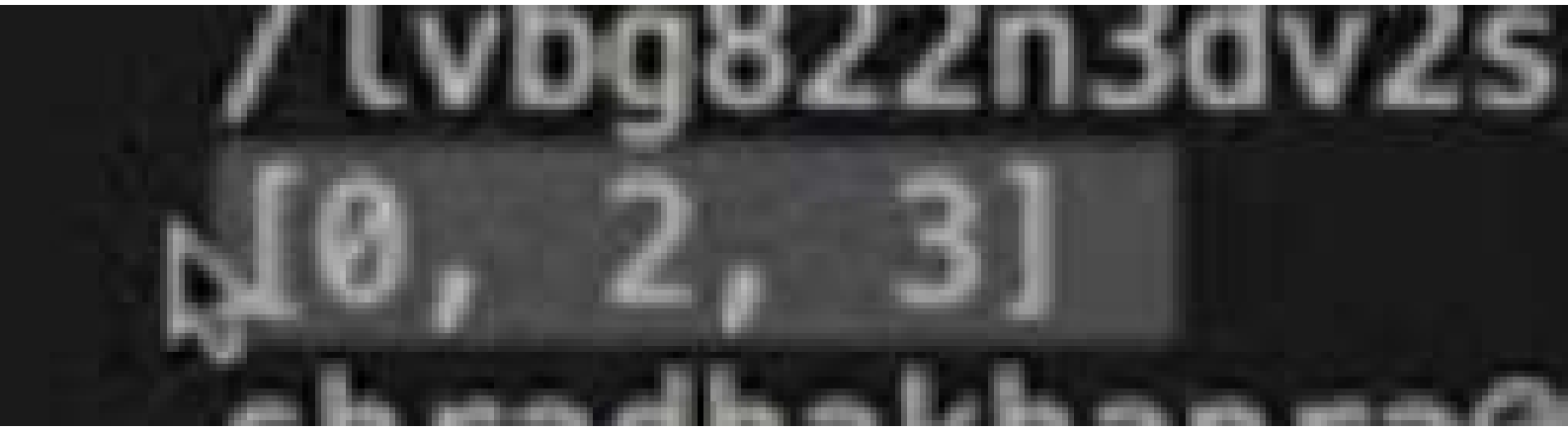

Array dist
0
1
2
3
OBJECTS
(1) m/m non-con.
(2) AL size variable
heap
stack
heap
AL

ArrayList

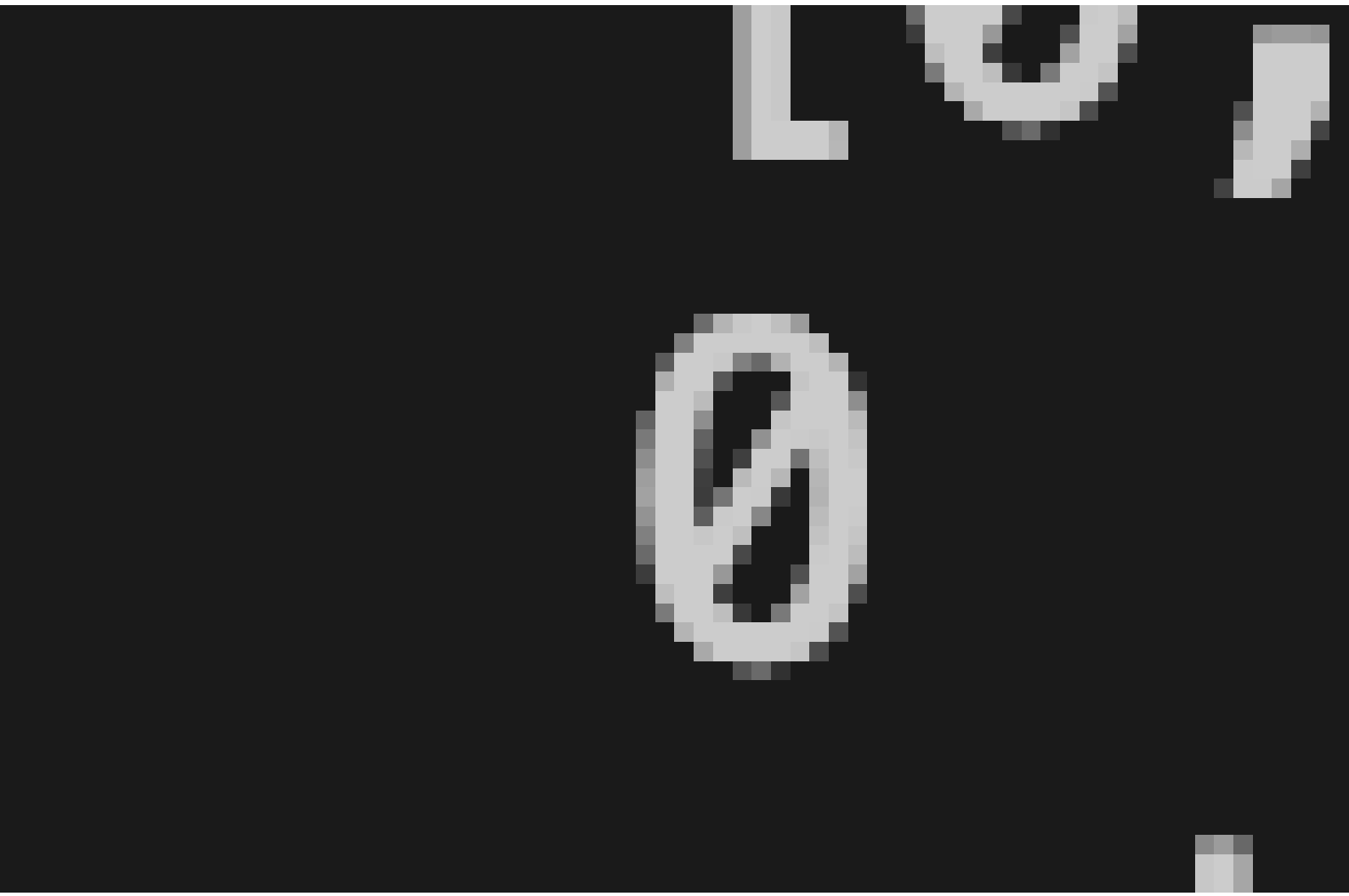
1. Add
2. Get
3. Modify
4. Delete / Remove
5. Iterate / Operations


import java.util.ArrayList;
class ArrayLists {
Run | Debug
public static void main(String args[]) {
ArrayList<Integer> list = new ArrayList<Integer>();
ArrayList<String> list2 = new ArrayList<String();
ArrayList<Boolean> list3 = new ArrayList<>();
}
}

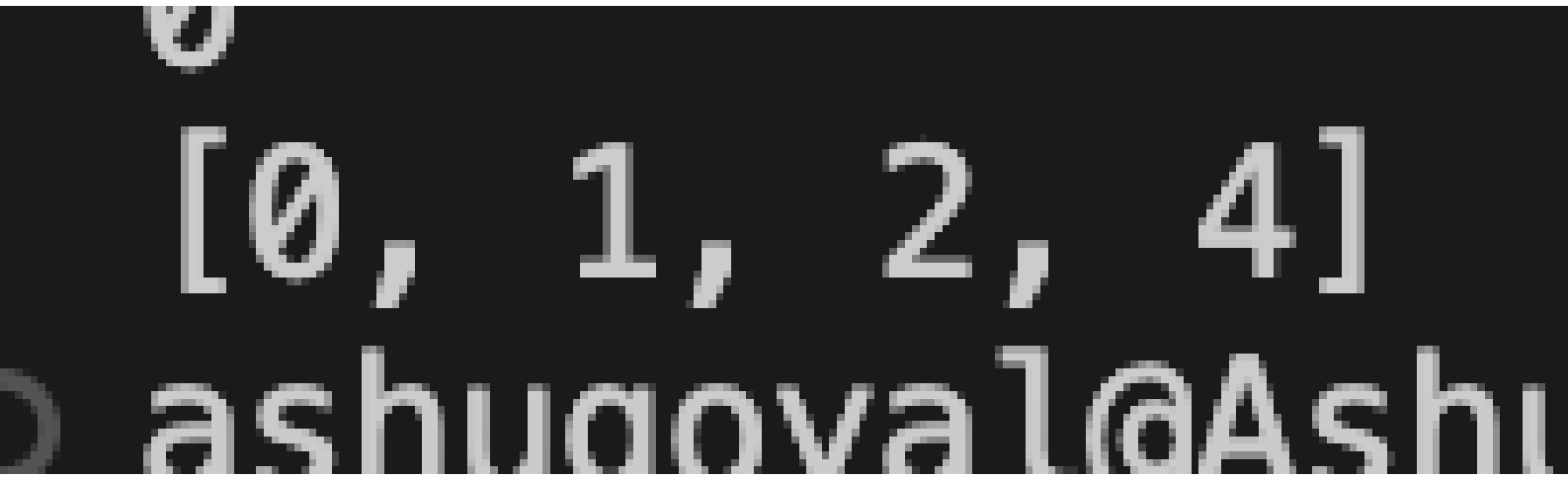
```java
import java.util.ArrayList;

class ArrayLists {
    Run | Debug
    public static void main(String args[]) {
        ArrayList<Integer> list = new ArrayList<Integer>();

        //add elements
        list.add(0);
        list.add(2);
        list.add(3);

        System.out.println(list);
    }
}
```


[0, 2, 3]

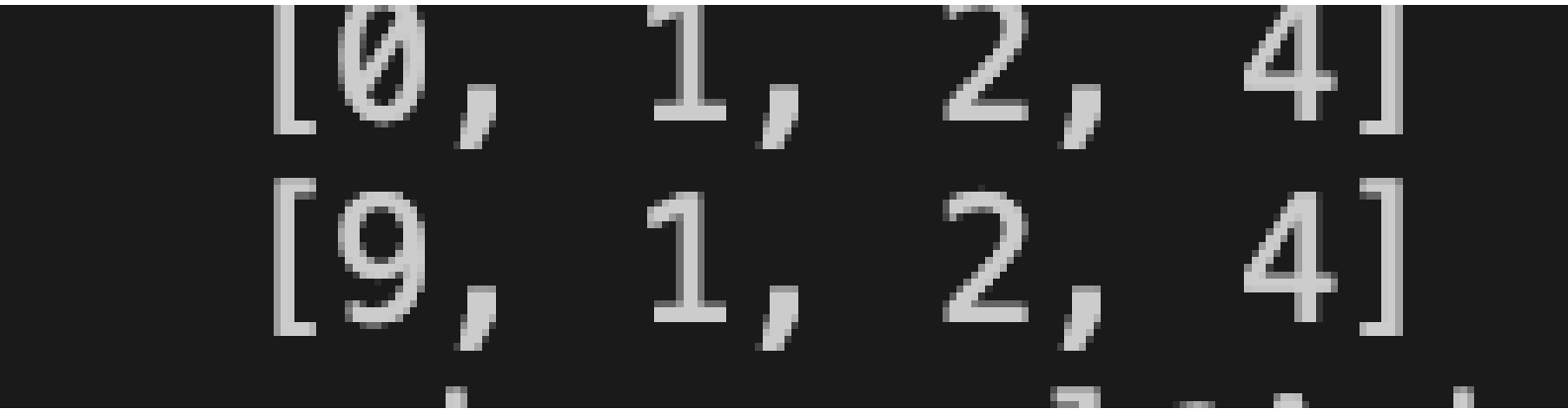
```java
/* get elements */
System.out.println(list.get(index:0));
```



```
/* add element in between */
list.add(index:2,element:2);
System.out.println(list);
```


0
[0, 1, 2, 4]
ashugoyal@Ashu

```
/* set elements */
list.set(index:0,element:9);
System.out.println(list);
```


[0, 1, 2, 4]
[9, 1, 2, 4]

```
/* delete element */
list.remove(index:2);
System.out.println(list);
```

```
[9, 1, 4]
```

```
/* Size of the arraylist */
System.out.println(list.size());
```

```
/* loops */
for(int i=0;i<list.size();i++)
{
    System.out.print(list.get(i)+" ");
}
System.out.println();
```

```java
/* Sorting */
Collections.sort(list);
System.out.println(list);
```