

Experiment 5

Perf: 24/8/22
Sub: 31/8/22

Q → Create and sort array for
i) List of integers
ii) List of names

Diagram:

1-D array creation diagram

(Refer E-Balaguruswamy fig 9.1
Chapter 9)

Q1) How to create an array in Java?

Q2) How to create string type of array in Java

Q3) How to initialize array elements in Java?

Q4) How to display array elements in Java?

Q5) How to sort array elements in Java?

Q6) What are the inbuilds methods to sort out the array elements?

Q7) How to create an array of different types of elements?

Q8) How to create dynamic type of an array?

Q9) What is the difference between int and Integer type of data?

Q10) What is the difference between String s and String s = new String[]?

→ To create array in Java

datatype ~~array-name~~ [] = new ~~datatype~~ [size];
OR
datatype [] array-name = new ~~datatype~~ [size];

Example: int a[] = new int [5];

→ How to initialize array elements

int a [] = {10, 20, 30, 40, 50};
OR

int a [] = new int [5];

a [0] = 10;

a [1] = 20;

a [2] = 30;

a [3] = 40;

a [4] = 50;

int a [] = new int [5];

for (int i = 0; i < a.length; i++) {
 a [i] = obj.nextInt();

}

→ OR

System.out.print("a[" + i + "] = " +
 obj.nextInt());

→ Display array elements
Each for loop

```
for (int num: a) {  
    s.o.u.t (num);  
}
```

→ Sorting
i> using inbuilt functions

```
import java.util.Arrays;  
Arrays.sort(a);
```

```
import java.util.Arrays; Arrays;  
import java.util.Collections;  
Arrays.sort(a, Collections.reverseOrder());
```

Does not work
for inbuilt data
types

Built-in → `int a[] = new Integer[5];`
Class type → `Integer a[] = new Integer[5];`

