Every reference variable in java has by default value null.

**Arrays in Java:**

Define:

Datatype[] variable\_name = new Datatype[size]

Int[] number = new int[5] OR int[] number = {22,11,23,12,5,3}

Int[] number; 🡪This is the declaration of array. ‘number ‘ is defined in the stack. // Happens at Compile time.

number =new int[5]; 🡪Here we created the actual object in the memory (Heap). // Happens at Run time. (Heap objects are not continue that means these elements will be stored randomly in the memory not one after another.)

2D Arrays:

Int[][] arr = new int[3][];

For the 2 D array it is mandatory to define a number of rows. If you do not define number of columns then its fine.