

Arrays in Java Assignment Questions

1->What do you mean by an Array?

An array type is a user defined data type consisting of an ordered set of elements of a single data type.

2->How to create an Array?

There are two ways you can declare and initialize an array in java. The first one is with the new keyword, Where you have to initialize the values one by one . The second is by putting the values in curly braces.

3->Can we change the size of an array at run time?

You can not change the size of the array it's constructed. However, you can change the number of elements in an ArrayList whenever you want .

4->Can you declare an array without assigning the size of an array ?

Yes, We can declare an array without size but before using it needs to be initialized.

5->What is the default value of Array ?

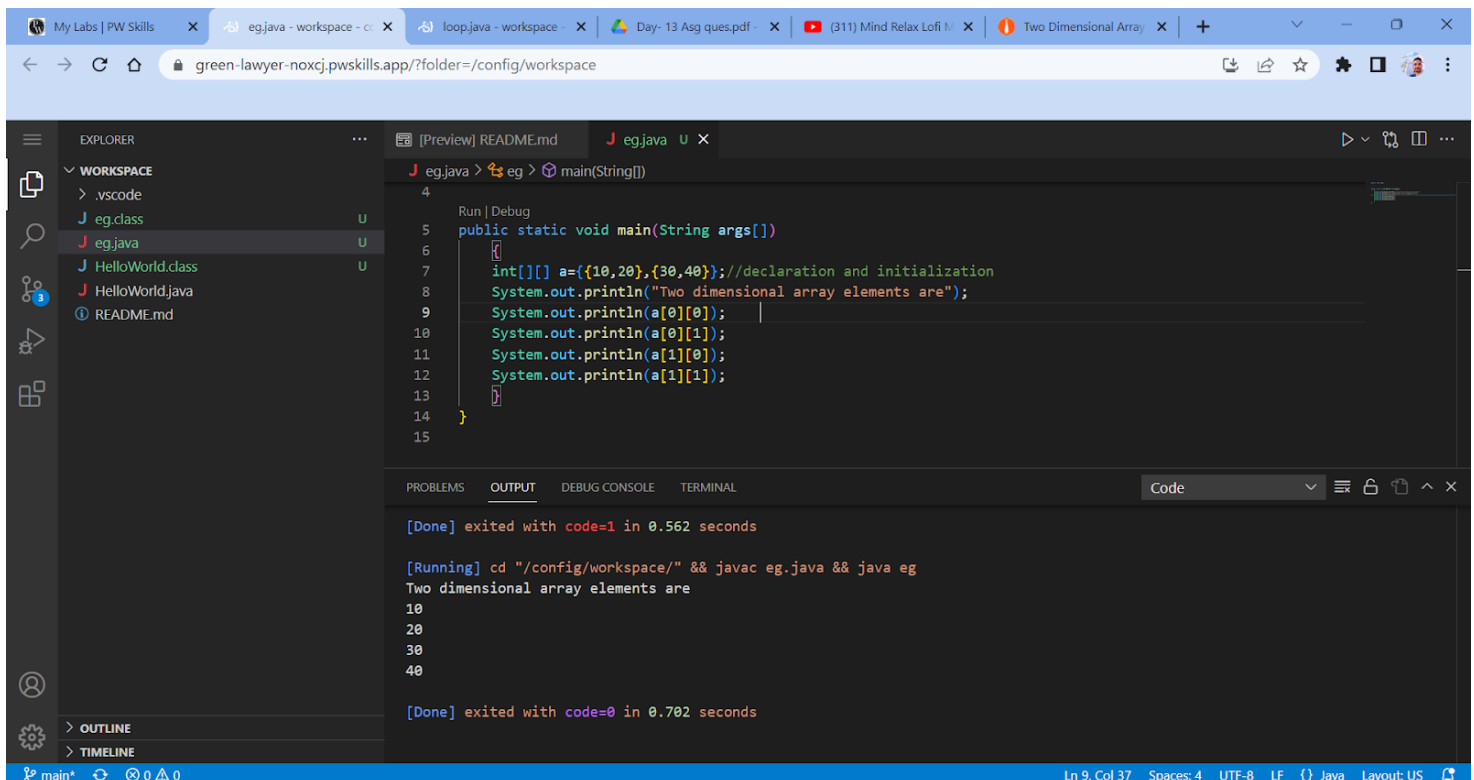
The default value of an Array is zero or null, depending on the data type.

6->What is a 1D array with an example ?

A 1D array is a simple data structure that stores a collection of similar type data in a contiguous block of memory.

```
Int a[ ] ={ 5,3,9,4,5};
```

7->Write a program on a 2D array ?



The screenshot shows a web-based IDE interface with a browser window at the top displaying the URL `green-lawyer-noxcj.pwskills.app/?folder=/config/workspace`. The IDE has a dark theme and includes an Explorer panel on the left showing a workspace with files like `.vscode`, `eg.class`, `eg.java`, `HelloWorld.class`, `HelloWorld.java`, and `README.md`. The main editor displays a Java file named `eg.java` with the following code:

```
4
5 public static void main(String args[])
6 {
7     int[][] a={{10,20},{30,40}}; //declaration and initialization
8     System.out.println("Two dimensional array elements are");
9     System.out.println(a[0][0]);
10    System.out.println(a[0][1]);
11    System.out.println(a[1][0]);
12    System.out.println(a[1][1]);
13 }
14
15
```

Below the editor, the Output panel shows the execution results:

```
[Done] exited with code=1 in 0.562 seconds

[Running] cd "/config/workspace/" && javac eg.java && java eg
Two dimensional array elements are
10
20
30
40

[Done] exited with code=0 in 0.702 seconds
```

The status bar at the bottom indicates the current position is Line 9, Column 37, with 4 spaces, UTF-8 encoding, LF line endings, and Java language.

Note:- Please create a Google Document and write your answers and upload the shareable link of the Google Document with view access during the submission of the assignment.