

ASSIGNMENT

Q1 ans-

An array is a data structure that stores a fixed-size sequence of elements of the same type. It is a fundamental concept in programming and is widely used in various programming languages.

Q2 ans-

```
int[] numbers = new int[5];
```

Q3 ans-

No

Q4 ans-

Yes

Q5 ans-

The Default value of array is 0.

Q6 ans-

A one-dimensional (1D) array in Java is a linear collection of elements of the same data type. It represents a list or sequence of values.

Here's an example of creating and using a 1D array in Java:

```
public class OneDimensionalArrayExample {  
    public static void main(String[] args) {  
        // Creating a 1D array of integers  
        int[] numbers = new int[5];  
  
        // Initializing array elements  
        numbers[0] = 10;  
        numbers[1] = 20;  
        numbers[2] = 30;
```

```
numbers[3] = 40;
```

```
numbers[4] = 50;
```

```
// Accessing and printing array elements
```

```
for (int i = 0; i < numbers.length; i++) {
```

```
    System.out.println("Element at index " + i + ": " + numbers[i]);
```

```
}
```

```
}
```

```
}
```