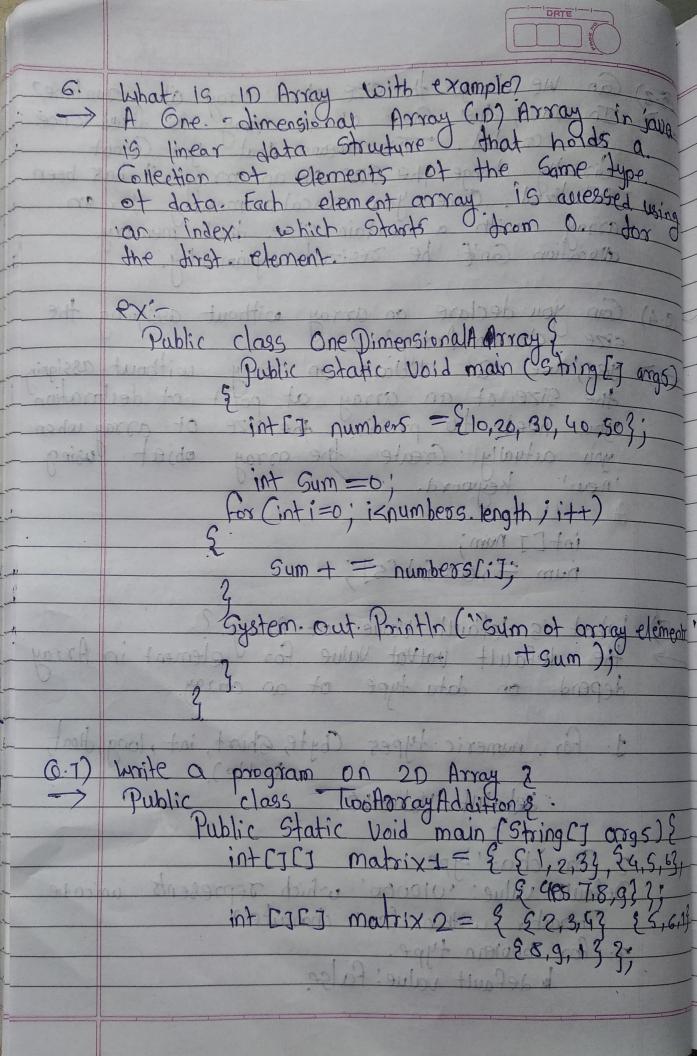
Assignment What do you mean by an Array? An Array is a fundamental data structure. in Computer programming that is used to stone & organize collection of elements of the same data type. These elements are stored in Contiquous memory locations. Making it easy to eass and manipulating them using their index Positions. each element is identified by index or position within an array.

Lisually index is starts from o for the dirst element. exint arr EJ = new int GI; 2) intravers = {1,2,3,4,5,63; 2 How to create An Array?

> use the 'new' keyword along with the array
type & size to create the array objet
in memory. Initialize the array you an assing values to the individual element of the array. Syntax data-type co array name = new douta type Carray six int [] num = new int [5];

an we change the size of an array at a run time? In Java, the Size of an array is fixed once 6.3) its coeated. This means that you Cannot directly change the size of an array it has been initialized once you allocate memory for an array with a certain size that memory do allocation can't be resized dynamically. Gin you declare an array without assigning the 0.4) the size of an array at point of declaration you need to provide the size of paray when you actually Greate the array object using 'new' keyword. De mid this int[] num; num = new int[s]; + mu 5) What is default value of Array? the default volvat value for element in Array depend on data type of an array. 1- For numeric types (byte, short, int, long, doat,

detallit Avalue: 0. 2001 and only of the control of the co 2 for char'typerion Default value: '010000' which represents unicode Character with o (null character) 3. For böokan type.
6 default value: false.



```
int rows = matrix 1-length;
int CD lumns = Matrix Co J-length;
int[][] result = new int Grows] [columns];
for (int i=0; ilrows; i++) {

For (int j=0; j2 rolumns; j++)
      2 result [i] [i] = matrix [i] [i] + Matrix 2[i] [i]
System.out : Println ( ' result matrix:");

tor (inti=0; i Lrows; i++) {

For (inti=0; i Columns; ;++) {
                  System. Out-printin (result [:] [:] +"");
       2 System-out-println();
```