**Jagged Array in Java**

* A jagged array is a multidimensional array in which member arrays are of different sizes.
* Jagged array is array of arrays such that member arrays can be of different sizes, i.e., we can create a 2-D arrays but with variable number of columns in each row. These type of arrays are also known as Jagged arrays.

class JArray

{

public JArray()

{

int i,j;

//Declearing 2-D array with two rows

int a[][]=new int[2][];

// First row has 3 columns

a[0] = new int[3];

// Second row has 2 columns

a[1] = new int[2];

// Initializing array

int count = 0;

for(i=0;i<a.length;i++)

for(j=0;j<a[i].length;j++)

a[i][j]=count++;

for(i=0;i<a.length;i++)

{

for(j=0;j<a[i].length;j++)

{

System.out.print("\t"+a[i][j]);

}

System.out.println();

}

}

}

Output:

0 1 2

3 4

// Another Java program to demonstrate 2-D jagged array such that first row has 1 //element, second row has two elements and so on.

class JArray

{

public JArray() {

int r = 5;

// Declaring 2-D array with 5 rows

int arr[][] = new int[r][];

// Creating a 2D array such that first row

// has 1 element, second row has two

// elements and so on.

for (int i=0; i<arr.length; i++)

arr[i] = new int[i+1];

// Initializing array

int count = 0;

for (int i=0; i<arr.length; i++)

for(int j=0; j<arr[i].length; j++)

arr[i][j] = count++;

// Displaying the values of 2D Jagged array

System.out.println("Contents of 2D Jagged Array");

for (int i=0; i<arr.length; i++)

{

for (int j=0; j<arr[i].length; j++)

System.out.print(arr[i][j] + " ");

System.out.println();

}

}

}

Output:

0

1 2

3 4 5

6 7 8 9

10 11 12 13 14