Array Mob: 8888809416

## JBK1013-Array

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Program for declare, initialize and display array
public class Testarray{
public static void main(String args[]){
int a[]=new int[5];//declaration and instantiation
a[0]=10;//initialization
a[1]=20;
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a[2]=70;
a[3]=40;
a[4]=50;
//printing array
for(int i=0;i<a.length;i++)//length is the property
of array
System.out.println(a[i]);
Java program that uses array
public class Program {
  public static void main(String[] args) {
     // Create int array.
     int[] array = new int[5];
     // Assign first three elements.
     array[0] = 1;
     array[1] = \frac{10}{3};
     array[2] = \frac{100}{3};
     // Loop over elements.
     for (int i = 0; i < array.length; i++) {
       // Get value.
       int value = array[i];
       // Print value.
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       System.out.println(value);
 }}
Java program that uses char array, loop
public class Program {
 public static void main(String[] args) {
     // Create an array of four chars.
     char[] values = new char[4];
     values[0] = 'j';
     values[1] = 'a';
     values[2] = 'v';
     values[3] = 'a';
     // Loop over array with for-loop.
     for (char value : values) {
       System.out.println(value);
Program for diplay declared array
class Testarray1{
public static void main(String args[]){
int a[]={33,3,4,5};//declaration, instantiation and
initialization
//printing array
for(int i=0;i<a.length;i++)//length is the property
of array
System.out.println(a[i]);
```

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}}
class Test{
 public static void main (String[] args) {
    int arr1[] = \{1, 2, 3\};
    int arr2[] = \{1, 2, 3\};
    if (arr1 == arr2) // Same as arr1.equals(arr2)
      System.out.println("Same");
    else
      System.out.println("Not same");
 } }
Java program that initializes arrays
public class Program {
  public static void main(String args) {
     // Two input arrays.
     <u>int[]</u> array1 = \{1, 3, 5\};
     String[] array2 = {"frog", "toad", "squirrel"};
     // Array lengths.
     System.out.println(array1.length);
     System.out.println(array2.length);
     // First elements in each array.
     System.out.println(array1[0]);
     System.out.println(array2[0]);
 } }
Java program that loops over array in reverse
public class Program {
 public static void main(String[] args) {
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     boolean[] values = { false, true, true, true };
     // Loop over array elements in reverse order.
     for (int i = values.length - 1; i \ge 0; i--) {
       System.out.println(values[i]);
     } } }
Java that merges two arrays
import java.util.Arrays;
public class Program {
  public static void main(String[] args) {
      int[] values = { 10, 20, 30 };
     int[] values2 = { 100, 200, 300 };
     // Merge the two arrays with for-loops.
     int[] merge = new int[values.length +
values2.length];
     for (int i = 0; i < values.length; i++) {
       merge[i] = values[i];
     for (int i = 0; i < values2.length; i++) {
       merge[i + values.length] = values2[i];
     // Display the merged array.
     System.out.println(Arrays.toString(merge));
  } }
Program for display addition of two array
class Testarray5{
public static void main(String args[]){
//creating two matrices
int a[[]={\{1,3,4\},\{3,4,5\}\}};
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int b[][]={{1,3,4},{3,4,5}};
//creating another matrix to store the sum of two
matrices
int c[][]=new int[2][3];
//adding and printing addition of 2 matrices
for(int i=0;i<2;i++){
for(int j=0; j<3; j++){}
c[i][j]=a[i][j]+b[i][j];
System.out.print(c[i][j]+" ");
System.out.println();//new line
} } }
Program for display average of array elements
class Average {
public static void main(String args[]) {
 double nums[] = {10.1, 11.2, 12.3, 13.4, 14.5};//
Here We Define Array
 double result = 0; // Result variable to Store the
sum of array of values
 int i:
 for(i=0; i<5; i++)
 result = result + nums[i]; //addition of Values
 System.out.println("Average is " + result / 5);
} }
Program for find length of array
class Length {
```

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Array
 public static void main(String args[]) {
  int a1[] = new int[10];
  int a2[] = \{3, 5, 7, 1, 8, 99, 44, -10\};
  int a3[] = \{4, 3, 2, 1\};
  System.out.println("length of a1 is " + a1.length);
  System.out.println("length of a2 is " + a2.length);
  System.out.println("length of a3 is " + a3.length);
public class Program {
  public static void main(String[] args) {
     // Use initialize syntax.
     <u>int[][]</u>    values = <mark>{ { 1, 2 }, { 3, 4 } }</mark>;
     System.out.println(values[0][0]);
     System.out.println(values[1][0]);
     System.out.println(values[0][1]);
     System.out.println(values[1][1]);
 } }
Java program that creates 3D array
public class Program {
  public static void main(String[] args) {
     // Create space cube with 9 points.
     <u>byte[][][]</u> space = new byte[3][3][3];
     space[0][0][0] = 10;
     space[1][1][1] = \frac{20}{5}; // Middle of the cube.
     space[2][2][2] = 30;
     // Display points in our space-cube.
     System.out.println(space[0][0][0]);
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     System.out.println(space[1][1][1]);
     System.out.println(space[2][2][2]);
 } }
Program for Copying an array to another
public class CopyArray {
public static void main(String[] args) {
int array1[]= \{2,3,4,5,8,9\};
int array2[] = new int[6];
System.out.println("array:");
System.out.print("[");
for (int i=0; i<array1.length; i++){
System.out.print(" "+array1[i]);
System.out.print("]");
System.out.println("\narray1:");
System.out.print("[");
for(int j=0; j<array1.length; j++){</pre>
array2[j] = array1[j];
System.out.print(" "+ array2[j]);
System.out.print("]");
} }
Program for sort interger array
public class SortIntArrayInJava {
 public static void bubbleSort(int[] arr) {
  int j = 0;
  int tmp;
   boolean sorted = false;
  while (!sorted) {
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    sorted = true;
    j++;
    for (int i = 0; i < arr.length - j; i++) {
      if (arr[i] > arr[i + 1]) {
       tmp = arr[i];
       arr[i] = arr[i + 1];
       arr[i + 1] = tmp;
       sorted = false } } }
 public static void main(String[] args) {
  int[] thisIsAnIntArray = { 5, 1, 100, 50, 75, 12, 89, }
51, 11, 28, 99 };
  bubbleSort(thisIsAnIntArray);
System.out.println(Arrays.toString(thisIsAnIntArra
y)); } }
Program for accept array from user and display it
import java.util.*;
class A1{
public static void main(String[] args){
 int[]z = new int[10];
  Scanner s = new Scanner(System.in);
System.out.println("Enter 10 integers of array");
for (int i=0;i<10;i++){}
System.out.println("Enter array element");
z[i] = s.nextInt();
System.out.println("You have entered");
 for (int i=0;i<10;i++){
  System.out.println(z[i]);
 } } }
```