// declare an array

double[] data;

// allocate memory

data = new double[10];

**OR**

double[] data = new double[10];

//declare and initialize and array

int[] age = {12, 4, 5, 2, 5};

class Main {

public static void main(String[] args) {

int[] numbers = {2, -9, 0, 5, 12, -25, 22, 9, 8, 12};

int sum = 0;

Double average;

// access all elements using for each loop

// add each element in sum

for (int number: numbers) {

sum += number;

}

// get the total number of elements

int arrayLength = numbers.length;

// calculate the average

// convert the average from int to double

average = ((double)sum / (double)arrayLength);

System.out.println("Sum = " + sum);

System.out.println("Average = " + average);

}

}

import java.util.Arrays;

public class Concat {

public static void main(String[] args) {

int[] array1 = {1, 2, 3};

int[] array2 = {4, 5, 6};

int aLen = array1.length;

int bLen = array2.length;

int[] result = new int[aLen + bLen];

System.arraycopy(array1, 0, result, 0, aLen);

System.arraycopy(array2, 0, result, aLen, bLen);

System.out.println(Arrays.toString(result));

}

}

class Test {

public static void main(String[] args)

{

int[][] arr = { { 1, 2 }, { 3, 4 } };

System.out.println("arr[0][0] = " + arr[0][0]);

}

}

class Fruit{}

class Vehicle{}

public class InstanceofDemo

{

public static void main(String[] args)

{

Fruit pineapple = new Fruit();

Vehicle truck = new Vehicle();

System.out.println("pineapple IS A fruit: " + (pineapple instanceof Fruit));

System.out.println("truck IS A vehicle: " + (truck instanceof Vehicle));

}

}

class Fruit{}

class Vehicle{}

public class InstanceofDemo

{

public static void main(String[] args)

{

Fruit apple = new Fruit();

Vehicle car = new Vehicle();

System.out.println("car IS A Fruit: " + (car instanceof Fruit));

}

}

class A{}

class B extends A{}

public class InstanceofDemo

{

public static void main(String[] args)

{

B objOfClassB = new B();

System.out.println("objOfClassB is an instance of B: " + (objOfClassB instanceof B));

System.out.println("objOfClassB is an instance of the parent class A: " + (objOfClassB instanceof A));

}

}

class Main {

public static void main(String[] args) {

// create an array

int[] age = {12, 4, 5};

// loop through the array

// using for loop

System.out.println("Using for Loop:");

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

System.out.println(age[i]);

}

}

}