JavaNotes

****

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**Array:**

**1.**

**package** org;

**public** **class** Demo {

**public** **static** **void** main(String[] args) {

// Array Declaration

**int**[] a;

// Array Creation

a = **new** **int**[3];

// Printing Array Elements

System.***out***.println(a[0]);

System.***out***.println(a[1]);

System.***out***.println(a[2]);

System.***out***.println("-----------");

// Array Initialization

a[1] = 50;

a[2] = 100;

System.***out***.println(a[0]);

System.***out***.println(a[1]);

System.***out***.println(a[2]);

System.***out***.println("-----------");

// Array Declaration and Creation

String[] names = **new** String[2];

System.***out***.println(names[0]);

System.***out***.println(names[1]);

System.***out***.println("-----");

names[0] = "Tom";

names[1] = "Jerry";

System.***out***.println(names[0]);

System.***out***.println(names[1]);

System.***out***.println("-----");

System.***out***.println(names.length);

}

}

o/p:

0

0

0

-----------

0

50

100

-----------

null

null

-----

Tom

Jerry

-----

2

2.

**package** org;

**public** **class** Test {

**public** **static** **void** main(String[] args) {

**int**[] a = {10, 20, 30};

System.***out***.println(a[0]);

System.***out***.println(a[1]);

System.***out***.println(a[2]);

System.***out***.println("---------");

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

System.***out***.println(a[i]);

}

System.***out***.println("---------");

**for**(**int** i=a.length-1; i>=0; i--) {

System.***out***.println(a[i]);

}

}

}

o/p:

10

20

30

---------

10

20

30

---------

30

20

10

3a.

**package** org;

**class** Student {

**int** age;

String name;

Student(**int** age, String name) {

**this**.age = age;

**this**.name = name;

}

@Override

**public** String toString() {

**return** **this**.name+" is "+**this**.age+" years old!";

}

}

3b.

**package** org;

**public** **class** TestStudent {

**public** **static** **void** main(String[] args) {

Student s1 = **new** Student(21, "Jerry");

Student s2 = **new** Student(22, "John");

Student s3 = **new** Student(23, "Jack");

Student[] std = {s1, s2, s3};

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

System.***out***.println(std[i]);

}

}

}

/\*

Student[] std = new Student[3];

std[0] = s1;

std[1] = s2;

std[2] = s3;

\*/

/\*int[] a = new int[3];

a[0] = 10;

a[1] = 20;

a[2] = 30;

or

int[] a = {10, 20, 30}; \*/

o/p:

Jerry is 21 years old!

John is 22 years old!

Jack is 23 years old!

**4a.**

**package** org;

**public** **class** Car {

String brand;

**int** cost;

Car(String brand, **int** cost) {

**this**.brand = brand;

**this**.cost = cost;

}

@Override

**public** String toString() {

**return** brand+" "+cost;

}

}

4b.

**package** org;

**public** **class** TestCar {

**public** **static** **void** main(String[] args) {

Car c1 = **new** Car("Audi", 1200);

Car c2 = **new** Car("Benz", 1400);

Car c3 = **new** Car("BMW", 1600);

Car[] c = {c1, c2, c3};

// without Overriding toString()

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

System.***out***.println(c[i].brand+" "+c[i].cost);

}

System.***out***.println("------");

// after Overriding toString()

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

System.***out***.println(c[i]);

}

}

}

o/p:

Audi 1200

Benz 1400

BMW 1600

------

Audi 1200

Benz 1400

BMW 1600

5.

**package** org;

**import** java.util.Scanner;

**public** **class** Runner {

**public** **static** **void** main(String[] args) {

Scanner scan = **new** Scanner(System.***in***);

System.***out***.println("Enter No of Elements to be Inserted:");

**int** size = scan.nextInt(); // 3

**int**[] a = **new** **int**[size];

System.***out***.println("Enter Array Elements:");

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

a[i] = scan.nextInt();

}

scan.close();

System.***out***.println("Array Elements Are:");

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

System.***out***.println(a[i]);

}

}

}

o/p:

Enter No of Elements to be Inserted:

3

Enter Array Elements:

10

20

30

Array Elements Are:

10

20

30