# Array programs:

1. Write a program to create an array of 10 elements, initialize array with some values and print all the elements of array.

Class name : ArrayElements.java

**public** **class** ArrayElements {

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

**for**(**int** i=0;i<=10;i++)

{

System.***out***.println(i);

}

}

# Output:

0 1 2 3 4 5 6 7 8 9 10

1. Write a program to create an array of 10 elements, Initialize it with some values and print the all elements in reverse order.

Class name : ReverseOrder.java

|  |  |
| --- | --- |
| **Input** | **Output** |
|  |  |
| 10 3 2 5 6 4 8 7 9 1 | 1 9 7 8 4 6 5 2 3 10 |
|  |  |
| 10 20 30 40 50 60 70 80 90 100 | 100 90 80 70 60 50 40 30 20 10 |

**import** java.util.Scanner;

**public** **class** ReverseOrder

{

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

{

**int** size, i, j, temp;

**int** arr[] = **{**10,3,2,5,6,4,8,7,9,1**}**;

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

System.***out***.print("Enter Array Size : ");

size = scan.nextInt();

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

**for**(i=0; i<size; i++)

{

arr[i] = scan.nextInt();

}

j = i - 1; // now j will point to the last element

i = 0; // and i will point to the first element

**while**(i<j)

{

temp = arr[i];

arr[i] = arr[j];

arr[j] = temp;

i++;

j--;

}

System.***out***.print("Now the Reverse of Array is : \n");

**for**(i=0; i<size; i++)

{

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

}

}

}

# Output:

1 9 7 8 4 6 5 2 3 10

1. Write a program to create an array of 10 elements, Initialize it with multiples of 10 and print the all elements.

Class name : ReverseOrder.java

**Output**

10 20 30 40 50 60 70 80 90 100

1. Write a program to create an array of 10 elements, Initialize it with some values and print the sum and average of 10 elements.

Class name : Sum.java

|  |  |
| --- | --- |
| **Input** | **Output** |
|  |  |
| 10 3 2 5 6 4 8 7 9 1 | 55 |
|  |  |
| 10 20 30 40 50 60 70 80 90 100 | 550 |
|  |  |

**public** **class** avg {

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

**int**[] numbers = **new** **int**[] {10, 3, 2, 5, 6, 4, 8, 7, 9, 1};

**int** sum = 0;

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

sum = sum+numbers[i];

**int** average = sum/numbers.length;

System.***out***.println(sum);

System.***out***.println(average);

}

}

5. Write a program to create an array of 10 elements, initialize it and print all even numbers. Class name : EvenList.java

|  |  |
| --- | --- |
| **Input** | **Output** |
|  |  |
| 10 3 2 5 6 4 8 7 9 1 | 2 4 6 8 10 |
|  |  |
| 10 20 30 40 50 60 70 80 90 100 | 20 40 60 80 100 |
|  |  |

public class EvenNumbers {

public static void main(String[] args) {

//define limit

int[]limit =new int{10,3,2,5,6,4,8,7,9,1};

System.out.println("Printing Even numbers between 1 and " + limit);

for(int i=1; i <= limit; i++){

// if the number is divisible by 2 then it is even

if( i % 2 == 0){

System.out.print(i + " ");

}

}

}

}

# Output:

2,4,6,8,10

6. Write a program to create an array of 10 elements, initialize it and print the count of even numbers. Class name : EvenCount.java

|  |  |
| --- | --- |
| **Input** | **Output** |
|  |  |
| 10 3 2 5 6 4 8 7 9 1 | 5 |
|  |  |
| 10 20 30 40 50 60 70 80 90 | 5 |

class EvenCount

{

public static void main(String[] args) {

//define limit

int limit = 10;

int count=0;

System.out.println("Printing Even numbers between 1 and " + limit);

for(int i=1; i <= limit; i++){

if( i % 2 == 0){

count++;

System.out.print(i + " ");

System.out.println(count);

}

}

}

}

# Output:

Number of evencount is:5

7. Write a program to create an array of 10 elements, initialize it and print the count of odd numbers. Class name : OddCount.java

|  |  |
| --- | --- |
| **Input** | **Output** |
|  |  |
| 10 3 2 5 6 4 8 7 9 | 4 |
|  |  |
| 10 20 30 40 50 60 70 80 90 | 5 |

Class OddCount

{

public static void main(String[] args) {

//define limit

int limit []= {10,3,2,5,6,4,8,7,9};

int count=0;

System.out.println("Printing Even numbers between 1 and " + limit);

for(int i=1; i <= limit; i++){

if( i % 2 !== 0){

count++;

System.out.print(i + " ");

System.out.println(count);

}

}

}

}

# Output:

Count is 4.

1. Write a program to create an array of 10 elements, initialize it and print the count of occurrences of the given value.

Class name : OccurrenceCounter.java

|  |  |  |
| --- | --- | --- |
| **Input** |  | **Output** |
|  |  |  |
| 10 3 2 5 6 4 8 7 9 | 4 | 1 |
|  |  |  |
| 10 20 90 40 50 90 70 80 90 | 90 | 3 |
|  |  |  |

1. Write a program to fill an array of 10 elements with the multiples of the given value and print all values.

Class name : FillMultiples.java

|  |  |
| --- | --- |
| **Input** | **Output** |
|  |  |
| 2 | 2 4 6 8 10 12 14 26 18 20 |
| Zzz |  |
| 6 | 6 12 18 24 30 36 42 48 54 60 |
|  |  |
|  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| 10. | Write a program to create an array of 10 elements, initialize it and print the sum of odd numbers. | | |
|  | Class name : OddSum.java | |  |
|  |  |  |  |
|  |  | **Input** | **Output** |
|  |  |  |  |
|  |  | 10 3 2 5 6 4 8 7 9 1 | 25 |
|  |  |  |  |
|  |  | 10 20 30 40 50 60 70 80 90 100 | 250 |

**public** **class** OddSum{

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

//define limit

**int** limit = 10;

**int** count=0;

**int** sum=0;

System.***out***.println("Printing Even numbers between 1 and " + limit);

**for**(**int** i=1; i <= limit; i++){

// if the number is divisible by 2 then it is even

**if**( i % 2 !=0){

count++;

sum=sum+count;

System.***out***.print(i + " ");

//System.out.println("number of evencount is:"+count);

System.***out***.println(sum);

}

}

}

}