1.Print the all elements in the array.

package training;

public class Pgm1 {

public static void main(String[] args) {

int arr[]={1,2,3,4,5};

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

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

}

}

}

//1 2 3 4 5

2.Print the all elements in the array in reverse.

package training;

public class Pgm2 {

public static void main(String[] args) {

int arr[]={1,2,3,4,5};

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

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

}

}

}

//5 4 3 2 1

3.convert the array to arrayList.

package training;

import java.util.\*;

public class Pgm3 {

public static void main(String[] args) {

int arr[]={1,2,3,4,5};

List<Integer> o=new ArrayList<>();

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

o.add(arr[i]);

}

System.out.print(o);

}

}

// [5, 4, 3, 2, 1]

4.Print the even number in the array.

5.Print the odd no. in the array.

6.Print the no. of even and odd.

7.Sum of the array.

8.Sum of odd and even.

package training;

import java.util.\*;

public class Pgm45678 {

public static void main(String[] args) {

int arr[]={1,2,3,4,5};int o=0,e=0;int sume=0,sumo=0;int sum=0;

List<Integer> odd=new ArrayList<>();

List<Integer> even=new ArrayList<>();

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

sum=sum+arr[i];

if(arr[i]%2==0)

{

even.add(arr[i]);

e++;

sume=sume+arr[i];

}

else{

odd.add(arr[i]);

o++;

sumo=sumo+arr[i];

}

}

System.out.println("Even no. in array: "+even);

System.out.println("Odd no. in array: "+odd);

System.out.println("Number of even: "+e);

System.out.println("Number of odd: "+o);

System.out.println("Sum of even: "+sume);

System.out.println("Sum of odd: "+sumo);

System.out.println("Sum of all: "+sum);

}

}

//Even no. in array: [4, 2]

//Odd no. in array: [5, 3, 1]

//Number of even: 2

//Number of odd: 3

//Sum of even: 6

//Sum of odd: 9

//Sum of all: 15

9.Skip the particular elements in the array.

package training;

public class Pgm9 {

public static void main(String[] args)

{

int arr[]={1,2,3,4,5};

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

{

if(arr[i]==3){

continue;

}

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

}

}}

//1 2 4 5

10.Search the particular element in array.

package training;

public class Pgm10 {

public static void main(String[] args)

{

int arr[]={1,2,3,4,5};

int target=12;

int dummy=0;

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

if(arr[i]==target){

dummy=1;

break;

}

}

if(dummy==1)

{

System.out.println("Found");

}

else{

System.out.println("Not Found");

}

}

}

//Found

//Not Found

11.Print the prime number in the array.

public class Prime {

public static void main(String[] args) {

int arr[]={1,2,3,4,5};

int p=0;

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

p=0;

for(int j=1;j<=arr[i];j++) {

if(arr[i]%j==0){

p++;}}

if(p==2)

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

}}}

12.Sum of prime number.

public class SumPrime {

public static void main(String[] args){

int arr[]={1,2,3,4,5};

int p=0;int sum=0;

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

p=0;

for(int j=1;j<=arr[i];j++) {

if(arr[i]%j==0){

p++; }}

if(p==2){

sum=sum+arr[i];

System.out.println(arr[i]+" "); }}

System.out.print("Sum of Prime :"+" "+sum); }}

13.Linear Search.

public class Linear {

public static void main(String[] args) {

int arr[]={1,2,3,4,5};

int tar=4;int p=0;int index=-1;

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

if(arr[i]==tar){

index=i;

p=1;

break;}}

if(p==1){

System.out.println(tar + "Found in the index" + index);}

else

System.out.println(tar+"Not found the index"+ index); }}

14.Binary Search.

package searching;

public class Binary {

public static void main(String[] args) {

int arr[]={1,2,3,4,5};

int s=0,e=arr.length-1;

int tar=5;

while(s<=e)

{

int mid=(s+e)/2;

if(tar>arr[mid])

s=mid+1;

else if(tar<arr[mid])

e=mid-1;

else if(tar==arr[mid]) {

System.out.println(mid);break;}}}}