

Practice programs

- Accept an array of size n from the user.
Find the sum of even indices and sum of odd indices and print the same.

```
import java.util.*;  
class SumEvenOdd  
{  
    public static void main (String [] args)  
    {  
        Scanner s1 = new Scanner (System.in);  
        int a[]; int Even_Sum=0, Odd_Sum=0;  
        System.out.print ("Enter size of the array");  
        int n = s1.nextInt();  
        a = new int [n];  
        for (int i=0; i<n; i++)  
        {  
            System.out.println ("Enter a [" + i + "]");  
            a[i] = s1.nextInt();  
        }  
        System.out.println ("Array a :");  
        for (int i=0; i<a.length; i++)  
        {  
            System.out.println (a[i]);  
        }  
        if (a[i] % 2 == 0)  
        {  
            Odd_Sum = Odd_Sum + a[i]  
        }  
        else  
        {  
            Even_Sum = Even_Sum + a[i]  
        }  
    }  
}
```

primitfEx.

System.out.println("The sum of odd numbers
in the array = " + oddSum);
System.out.println("The sum of even
numbers in the array = " + evenSum);

2. Accept an array of n integers. Find the
number of positive numbers, negative no.
and zeroes.

```
import java.util.*;  
class PosNegZero.  
{  
    public static void main (String [] args)  
    {
```

```
        Scanner A1 = new Scanner (System.in);  
        int a1[] = new int [positive, negative, zeroes];  
        System.out.println ("Enter n of arrays");  
        int n = A1.nextInt();
```

```
        a1 = new int [n];  
        for (int i=0; i<n; i++)  
        {  
            System.out.print ("Enter a[" + i + "] ");  
            a1[i] = A1.nextInt();  
        }
```

```
        System.out.println ("Array a:");  
        for (int i=0; i<n; i++)  
        {
```

```
            System.out.println (a1[i]);  
        }
```

```
        for (int i=0; i<a1.length; i++)
```

8.

```

if (a1[i] > 0) {
    positive++;
}
else
if (a1[i] < 0)
{
    negative++;
}
else
    zeroes++;

```

System.out.println("No. of positive
numbers : " + positive + " No. of negative no."
+ negative + " No. of zeroes " + zeroes);

9. Consider a Super market bill

class supermarket

{
public static void main (String args[])

Scanner sc = new Scanner (System.in);
int r[], q[], n, totalamount, finalamount
System.out.println ("Enter the number of items");
n = sc.nextInt();

int total[] = new int[n];

int sum[] = new int[n];

System.out.println ("Enter Rate and quantity
of each item");

for (int i=0; i<n; i++)

System.out.println("Rate of item "+i+":");

r[i] = sc.nextInt();

System.out.println("Quantity item "+i+":");

q[i] = sc.nextInt();

Totalamount = totalamount + ~~(r[i]*q[i])~~; (r[i]+q[i]);

if (totalamount >= 10000)

finalamount = totalamount - totalamount * 0.5;

System.out.println("final amt = "+finalamount);

else if (totalamount >= 7500 && totalamount < 10000)

finalamount = totalamount - totalamount * 0.3;

System.out.println("final amount = "+finalamount);

else if (totalamount >= 5000)

finalamount = totalamount * (1-0.02);

System.out.println("final amount = "+finalamount);

else

System.out.println("No discount");

4. Accept an array A of n elements. Create two new arrays where the first one say B that holds all the odd numbers from A and second say C holds the even numbers from array A. Display the sum, average, max and min of array

```
import java.util.*;
class array
{
    public static void main(String arg[])
    {
        Scanner s = new Scanner(System.in);
        int A[], B[], C[];
        System.out.println("Enter the size of an array");
        int n = s.nextInt();
        A = new int[n];
        B = new int[n];
        C = new int[n];
        System.out.println("Enter the values of array");
        for (int i=0; i<n; i++)
        {
            System.out.println("Enter a[" + i + "]");
            A[i] = s.nextInt();
        }
        System.out.println("Array a:");
        for (int i=0; i<n; i++)
        {
            System.out.println(a[i]);
        }
        for (int i=0; i<A.length; i++)
        {
            if (A[i] < 2 & A[i] != 0)
            {
                B[i] = A[i];
            }
            else
            {
                C[i] = A[i];
            }
        }
    }
}
```

for (int i=0; i < c.length; i++)
 {
 int sum=0;
 sum = sum + c[i];
 }

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

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

System.out.println("Average = "+sum/c.length);
 int Max = c[0]; int Min = c[0];

int Max, Min;

for (int i=1; i < c.length; i++)
 {

if (c[i] > Max);
 {

Max = c[i];

}

{

System.out.println("Max num: "+Max);

for (int i=1; i < c.length; i++)

{

if (c[i] < Min)

{

Min = c[i];

}

{

System.out.println("Min num: "+Min);

};