

1. Accept an array of size n from the user. Find the sum of even indices (i.e., 0,2,4....) and sum of odd indices (1,3,5....) and print the same

```
import java.util.*;
class EvenOddSum {
    public static void main(String args[])
    {
        int arr[],n,even = 0, odd = 0;
        Scanner in=new Scanner(System.in);
        System.out.print("Enter the no. of elements: ");
        n=in.nextInt();
        arr=new int[n];
        System.out.println("Enter "+n+" elements:");
        for(int i = 0;i < n; i++)
            arr[i] = in.nextInt();
        for(int i = 0;i < n; i++) {
            if (i % 2 == 0)
                even += arr[i];
            else
                odd += arr[i];
        }

        System.out.println("Sum of even index: " + even);
        System.out.println("Sum of odd index: " + odd);
    }
}
```

2. Accept an array of n integers. Find the number of positive numbers, negative numbers and zeros.
3. Consider a super market bill. Accept a double array holding rate per item of say x items and an int array showing the quantity purchased by a customer. Calculate the total bill amount and the final bill amount after giving discounts as per the following slabs.  
If the total bill amount  $\geq 10000$ , discount=5%  
If the total bill amount  $\geq 7500$  and  $< 10000$ , discount=3%  
If the total bill amount  $\geq 5000$ , discount=2%
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 array A and the second say C holds the even numbers from array A. Display the sum, average, max and min of array C.