```java
import java.util.Scanner;

class array
{
    public static void main(String[] args)
    {
        int n;
        Scanner get=new Scanner(System.in);
        System.out.printf("\nEnter The size of array : ");
        n=get.nextInt();
        int a[]=new int[n];
        int s_odd=0,s_even=0;
        System.out.printf("\nEnter The array Elements :\n ");
        for(int i=0;i<n;i++)
        {
            a[i]=get.nextInt();
        }
        for(int i=0;i<n;i+=2)
        {
            s_even+=a[i];
        }
        for(int i=1;i<n;i+=2)
        {
            s_odd+=a[i];
        }



        System.out.println("\nSum of Even indices= "+s_even+" And Sum of Odd indices= "+s_odd);


    }
}

```

```
Enter The size of array : 10

Enter The array Elements :
 1
2
3
4
5
-9
7
3
6
2

Sum of Even indices= 22 And Sum of Odd indices= 2
```

```java
import java.util.Scanner;

class array_div
{
    public static void main(String[] args)
    {
        int n;int positive=0,negative=0,zero=0;
        Scanner get=new Scanner(System.in);
        System.out.println("\nEnter the Size of Array : ");
        n=get.nextInt();
        int array[]=new int[n];
        System.out.println("\nEnter The Array Elements : ");
        for(int i=0;i<n;i++)
            array[i]=get.nextInt();
        for(int i=0;i<n;i++)
        {
            if(array[i]==0)
                zero++;
            else
                if(array[i]>0)
                    positive++;
            else
                if(array[i]<0)
                    negative++;

        }
        System.out.println("\nThe no  of Positive digits, Negative digits and Zeros in given array are :\n 1)No. of Positive numbers=

    }
}
```

```
s in given array are :\n 1)No. of Positive numbers=  "+positive+"\n2)No. of Negative numbers=  "+negative+"\n3)No. of Zero's =  "+zero);
```

```
Enter the Size of Array :
10

Enter The Array Elements :
1
5
-9
-3
0
-3
1
8
-9
0

The no  of Positive digits, Negative digits and Zeros in given array are :
 1)No. of Positive numbers=  4
2)No. of Negative numbers=  4
3)No. of Zero's =  2
```

```java
import java.util.Scanner;
class market
{
    public static void main(String[] args)
    {
        int x;
        float total_bill,total_bill_discounted;
        Scanner get=new Scanner(System.in);
        System.out.println("\nEnter The No of Items :");
        x=get.nextInt();
        float rate_of[]=new float[x];
        int quantity[]=new int[x];
        System.out.println("\nEnter The Rate of item And Quantity purchased:\n ");
        for(int i=0;i<x;i++)
        {
            System.out.printf("\nRate:"); rate_of[i]=get.nextFloat();
            System.out.printf("Quantity: "); quantity[i]=get.nextInt();
        }
        total_bill=gettotal(rate_of,quantity,x);
        total_bill_discounted=final_bill(total_bill);
        System.out.println("\nThe Total Bill = "+total_bill+"\nThe Final Bill after discount(if applicable) = "+total_bill_discounted);
    }
    static float gettotal(float rate[],int quan[],int x)
    {
        float total=0;
        for(int i=0;i<x;i++)
        {
            total+=(rate[i]*quan[i]);
        }
        return total;
    }
    static float final_bill(float total)
    {
        float final_bill=total;
        final_bill-=total>=10000?(.05*total):((total>=7500 && total<10000)?(.03*total):(total>=5000)?(.02*total):0);
        return final_bill;
    }

}
```

```
Enter The No of Items :
5

Enter The Rate of item And Quantity purchased:


Rate:1000
Quantity: 2

Rate:2000
Quantity: 1

Rate:500
Quantity: 1

Rate:100
Quantity: 4

Rate:5
Quantity: 2

The Total Bill = 4910.0
The Final Bill after discount(if applicable) = 4910.0
```

```java
import java.util.Scanner;

class array_ope
{
    public static void main(String[] args)
    {
        int n;int p=0,q=0;
        Scanner get=new Scanner(System.in);
        System.out.println("\nEnter The No. of Elements: ");
        n=get.nextInt();
        int array_A[]=new int[n];
        int array_B[]=new int[n]; //holds odd numbers
        int array_C[]=new int[n]; //holds even numbers
        System.out.println("\nEnter The Array Elements : ");
        for(int i=0;i<n;i++)
        {
            array_A[i]=get.nextInt();
        }
        //C and B initialization
        for(int i=0;i<n;i++)
        {
            if(array_A[i]==0 || array_A[i]%2==0)
                {
                    array_C[p]=array_A[i];
                    p++;
                }
            else
                {
                    array_B[q]=array_A[i];
                    q++;
                }
        }
        //display of b and c
        System.out.println("\n\n Array_A:");
        for(int i=0;i<n;i++)
            System.out.printf("   %d ",array_A[i]);
        System.out.println("\n\n Array_B");
        for(int i=0;i<q;i++)
            System.out.printf("   %d ",array_B[i]);
        System.out.println("\n\n Array_C");
```

```
        System.out.println("\n\n Array_B");
        for(int i=0;i<q;i++)
            System.out.printf("   %d ",array_B[i]);
        System.out.println("\n\n Array_C");
        for(int i=0;i<p;i++)
            System.out.printf("   %d ",array_C[i]);


        //operations
        operations(array_C,p);
    }
    static void operations(int array[],int size)
    {
        int sum=0,max,min;
        float average;
        for(int i=0;i<size;i++)
        {
            sum+=array[i];
        }
        average=sum/size;
        max=array[0];
        min=array[0];
        for(int i=1;i<size;i++)
        {

            if(max<array[i])
            {
                max=array[i];
            }
            if(min>array[i])
            {
                min=array[i];
            }
        }
        System.out.println("\n\nSum = "+sum+"\nMax = "+max+"\nMin = "+min+"\nAverage = "+average);
    }
}
```

```
Enter The No. of Elements:
10

Enter The Array Elements :
1
2
3
4
5
6
7
8
9
10


 Array_A:
   1    2    3    4    5    6    7    8    9    10

 Array_B
   1    3    5    7    9

 Array_C
   2    4    6    8    10
For The Array_C :

Sum = 30
Max = 10
Min = 2
Average = 6.0
```