

Extra Program .

```

1. import java.util.*;
   class array-sum
   {
       public static void main (String args[])
       {
           Scanner sc = new Scanner(System.in);
           int n, even = 0, odd = 0;
           System.out.println ("Enter array size");
           n = sc.nextInt();
           int a[] = new int [n];
           System.out.println ("Enter values");
           for (int i = 0; i < n; i++)
               a[i] = sc.nextInt();
           for (int i = 0; i < n; i++)
           {
               if (i % 2 == 0)
                   even = even + a[i];
               else
                   odd = odd + a[i];
           }
           System.out.println ("Sum of even indices = " + even);
           System.out.println ("Sum of odd indices = " + odd);
       }
   }

```


2.

```
import java.util.*;  
class array_count  
{  
    public static void main(String args[])  
    {  
        Scanner sc = new Scanner(System.in);  
        int n, pos = 0, neg = 0, zero = 0;  
        SOPln("Enter array size");  
        n = sc.nextInt();  
        SOPln("Enter values");  
        int a[] = new int[n];  
        for(int i = 0; i < n; i++)  
            a[i] = sc.nextInt();  
        for(int i = 0; i < n; i++)  
        {  
            if(a[i] == 0)  
                zero++;  
            else if(a[i] > 0)  
                pos++;  
            else  
                neg++;  
        }  
        SOPln("no. of positive numbers = " + pos);  
        SOPln("no. of negative numbers = " + neg);  
        SOPln("no. of zeroes in array = " + zero);  
    }  
}
```


3.

```
import java.util.*;
class market_bill
{
    public static void main(String args[]);
    {
        Scanner sc = new Scanner (System.in);
        int x;
        SoPln ("Enter no. of items ");
        x = sc.nextInt();
        double tot = 0.0; total = 0.0;
        double rate = new double [x];
        int quantity = new int [x];
        for (int i=0; i < x; i++)
        {
            SoPln ("Enter price of item and quantity ");
            rate [i] = sc.nextDouble();
            quantity [i] = sc.nextInt();
            tot = tot + (rate [i] * quantity [i]);
        }
        double dis;
        if (tot >= 10000.0)
            dis = 5.0;
        if (tot >= 7500.0 && tot < 10000.0)
            dis = 3.0;
        if (tot >= 5000.0 && tot < 7500.0)
            dis = 2.0;
        total = tot - (dis * tot / 100.0);
        SoPln ("Total bill before discount = " + tot);
        SoPln ("Total bill after discount = " + total);
    }
}
```


4.

```

import java.util.*;
class array-abc {
    public static void main(String args[])
    {
        Scanner sc = new Scanner(System.in);
        int n, ev = 0, odd = 0;
        SOPln("Enter array size");
        n = sc.nextInt();
        SOPln("Enter values");
        int a[] = new int[n];
        for (int i = 0; i < n; i++)
        {
            a[i] = sc.nextInt();
            if (a[i] % 2 == 0)
                ev++;
            else
                odd++;
        }
        int b[] = new int[odd];
        int c[] = new int[ev];
        int x = 0, y = 0;

        for (int i = 0; i < n; i++)
        {
            if (a[i] % 2 == 0)
                c[x++] = a[i];
            else
                b[y++] = a[i];
        }
    }
}

```



```

double sum = 0.0, avg;
int max = c[0], min = c[0];
for (int i = 0; i < ev; i++)
{
    sum = sum + c[i];
    if (c[i] > max)
        max = c[i];
    if (c[i] < min)
        min = c[i];
}
avg = sum / ev;
cout << "For array c : ";
cout << "Sum : " << sum;
cout << "Average : " << avg;
cout << "Maximum : " << max;
cout << "Minimum : " << min;
}
}

```