

1.7 import java.util.Scanner;
class sum {

public static void main (String[] args) {
int n;

Scanner sc = new Scanner (System.in);

System.out.println ("Enter the number of
elements: ");

n = sc.nextInt();

int[] arr = new int[n];

System.out.println ("Enter the elements of
array: ");

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

arr[i] = sc.nextInt();

}

int Se = 0, So = 0;

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

if (i % 2 == 0)

Se += arr[i];

else

So += arr[i];

}

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

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

}

}

```
2.) import java.util.Scanner;
class Type {
    public static void main (String args[]) {
        int n, i, pos=0, neg=0, zero=0;
        int arr[] = new int[20];
        Scanner sc = new Scanner (System.in);
        System.out.println ("Enter the length of array:");
        n = sc.nextInt();
        System.out.println ("Enter numbers:");
        for (i=0; i<n; i++) {
            arr[i] = sc.nextInt();
        }
        for (i=0; i<n; i++) {
            if (arr[i]>0) {
                pos++;
            }
            else if (arr[i]==0) {
                zero++;
            }
            else if (arr[i]<0) {
                neg++;
            }
        }
        System.out.println ("Positive numbers are: "
                               + pos);
        System.out.println ("Negative numbers are: "
                               + neg);
        System.out.println ("Zeros are: " + zero);
    }
}
```

3. import java.util.Scanner;
class bill {

public static void main (String args[]) {

Scanner sc = new Scanner (System.in);

System.out.println ("Enter number of items: ");

int n = sc.nextInt();

double itotal, total = 0;

double[] rate = new double[n];

int[] qu = new int[n];

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

System.out.println ("Enter quantity of purchase
& rate per item for item " + (i+1));

int q = sc.nextInt();

double r = sc.nextDouble();

qu[i] = q;

rate[i] = r;

}

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

itotal = qu[i] * rate[i];

total += itotal;

}

if (total >= 10000) {

System.out.println ("\nDiscount = 5% \nTotal

bill = " + total + "\nDiscounted bill = "

+ (total - total * 0.05));

}

else if (total >= 7500) {

System.out.println ("\nDiscount = 3% \nTotal

bill = " + total + "\nDiscounted bill = "

+ (total - total * 0.03));

}


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else if (total >= 5000) {
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    System.out.println("\n Discount = 2% \n
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    Total bill = " + total + " \n Discounted bill = "  
        + (total - total * 0.02));
```

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}
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else {
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    System.out.println("\n No discount \n Total  
    bill = " + total);
```

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}
```

```
}
```

```
}
```

```
4.) import java.util.Scanner;
class Practice {
    public static void main (String args[]) {
        Scanner sc = new Scanner(System.in);
        int i i, n, j = 0, k = 0, sum = 0, avg = 0, max = 0,
            min = 0;
        System.out.println ("Enter number of elements:");
        n = sc.nextInt();
        int A[] = new int [n];
        int B[] = new int [n];
        int C[] = new int [n];
        max = C[0];
        System.out.println ("Enter all the elements:");
        for (i = 0; i < n; i++) {
            A[i] = sc.nextInt();
        }
        for (i = 0; i < n; i++) {
            if (A[i] % 2 != 0) {
                B[j] = A[i];
                j++;
            }
            else {
                C[k] = A[i];
                k++;
            }
        }
        System.out.println ("Odd:");
        if (j > 1) {
            for (i = 0; i < (j-1); i++) {
                System.out.println (B[i]);
            }
        }
    }
}
```

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} System.out.println(B[j-1]);
else {
    System.out.println("No number");
}
System.out.println("Even: ");
if (K > 1) {
    for (i=0; i < (K-1); i++) {
        System.out.println(C[i]);
    }
    System.out.println(C[K-1]);
    for (i=0; i < C.length; i++) {
        sum += C[i];
        avg = sum/K;
    }
    for (i=0; i < K; i++) {
        min = C[0];
        if (C[i] > max) {
            max = C[i];
        }
        if (C[i] < min) {
            min = C[i];
        }
    }
    System.out.println("SUM = " + sum);
    System.out.println("AVERAGE = " + avg);
    System.out.println("MAXIMUM = " + max);
    System.out.println("MINIMUM = " + min);
}
```