

Program 1

```
import java.util.*;

class Main{

public static void main(String args[]){

int n,SumO=0,SumE=0;

Scanner in = new Scanner(System.in);

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

n=in.nextInt();

int arr[]=new int[n];

System.out.println("Enter the elements");

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

arr[i]=in.nextInt();


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

{

if(arr[i]%2==0)

{

SumE+=arr[i];

}

else

{

SumO+=arr[i];

}

}

System.out.println("Sum of even numbers in an array = "+SumE);

System.out.println("Sum of odd numbers in an array = "+SumO);

}

}
```

```
Enter the size of the array
6
Enter the elements
3
7
8
4
2
0
Sum of even numbers in an array = 14
Sum of odd numbers in an array = 10
```

Program 2 :

```
import java.util.*;

class Main{

public static void main(String args[]){

int n,count_p=0,count_n=0,count_z=0;

Scanner in=new Scanner(System.in);

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

n=in.nextInt();

int arr[]=new int[n];

System.out.println("Enter the elements");

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

{

arr[i]=in.nextInt();

}

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

{

if(arr[i]>0)

{

count_p++;

}

else if(arr[i]<0)

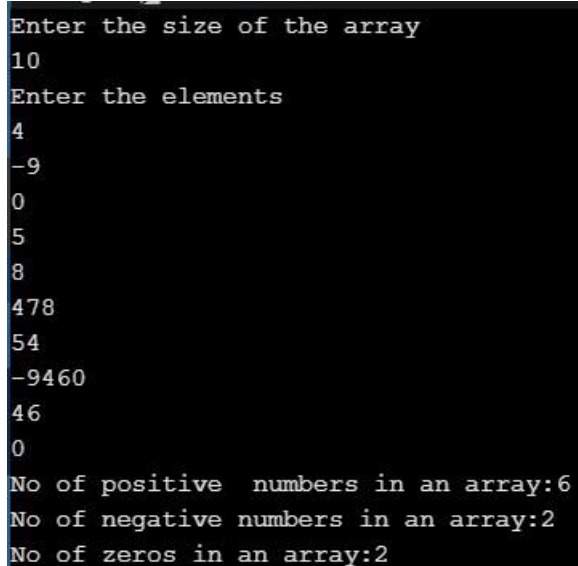
{
```

```

count_n++;
}
else
{
count_z++;
}
}

System.out.println("No of positive numbers in an array:"+count_p);
System.out.println("No of negative numbers in an array:"+count_n);
System.out.println("No of zeros in an array:"+count_z);
}
}

```



The screenshot shows a terminal window with the following text:

```

Enter the size of the array
10
Enter the elements
4
-9
0
5
8
478
54
-9460
46
0
No of positive numbers in an array:6
No of negative numbers in an array:2
No of zeros in an array:2

```

The program prompts the user to enter the size of the array (10) and then the elements. The elements entered are 4, -9, 0, 5, 8, 478, 54, -9460, 46, and 0. The program then outputs the counts: 6 positive numbers, 2 negative numbers, and 2 zeros.

Program 3:

```

import java.util.*;

public class Main
{

```

```

public static void main(String[] args) {

    Scanner input = new Scanner(System.in);

    System.out.println("Enter the no of Items :");
    int n = input.nextInt();

    double Rate[]=new double[n];
    int noItems[]= new int[n];

    System.out.println("Enter the Rate per Items");

    int i;
    int k=1;
    for(i=0;i<n;i++){
        System.out.println("Price of Item "+k);
        Rate[i]=input.nextDouble();
        k++;
    }

    System.out.println("Enter the total no of Items");

    k=1;
    for(i=0;i<n;i++){
        System.out.println("No.of Items of Item "+k);
        noItems[i]=input.nextInt();
        k++;
    }

    double Sum=0;

```

```
for(i=0;i<n;i++){
    System.out.println(Rate[i] + " " + noItems[i] + "\n");
}

for(int j=0;j<n;j++){
    Sum = Sum + ((double)Rate[j]*noItems[j]);
}

    System.out.println("The total bill = "+Sum);

    if(Sum>=1000){
        Sum = Sum - (5*(Sum))/100;
    }
    else if (Sum>=7500){
        Sum = Sum - (3*(Sum))/100;
    }
    else if(Sum>=5000){
        Sum = Sum - (2*(Sum))/100;
    }

    System.out.println("The bill after discount is = "+Sum);

}

}
```

```
Enter the no of Items :
5
Enter the Rate per Items
Price of Item 1
54
Price of Item 2
54
Price of Item 3
87
Price of Item 4
560
Price of Item 5
46606
Enter the total no of Items
No.of Items of Item 1
45
No.of Items of Item 2
84
No.of Items of Item 3
50
No.of Items of Item 4
5
No.of Items of Item 5
5
54.0  45
54.0  84
87.0  50
560.0  5
46606.0  5
The total bill = 247146.0
The bill after discount is = 234788.7
```

Program 4 :

```
import java.util.*;

class Main{

public static void main(String args[]){

    int n;

    int j=0,k=0,sum=0;

    Scanner in=new Scanner(System.in);

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

    n=in.nextInt();

    int A[]=new int[n];

    int B[]=new int[n];

    int C[]=new int[n];

    System.out.println("Enter the elements");

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

    {

        A[i]=in.nextInt();

    }

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

    {

        if(A[i]%2==0)

        {

            C[j]=A[i];

            j++;

        }

        else

        {

            B[k]=A[i];
```

```
k++;

}

}

System.out.println("Even array elements:");
for(int i=0;i<j;i++)
{
    System.out.println(+C[i]);
}

System.out.println("Odd array elements:");
for(int i=0;i<k;i++)
{
    System.out.println(+B[i]);
}

for(int i=0;i<j ;i++)
{
    sum+=C[i];
}

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

double average = sum/j;

System.out.println("Average of even array :"+average);

int min= C[0];
int max = C[0];
for(int i=0;i<j;i++)
{
    if(C[i]>=max)
    {
        max = C[i];
    }
    if(C[i]<=min)
    {
```



```

min = C[i];
}
}

System.out.println("Maxium and Minimum among even array is :"+max+" "+min);

import java.util.*;

class Main{

public static void main(String args[]){

int n;

int j=0,k=0,sum=0;

Scanner in=new Scanner(System.in);

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

n=in.nextInt();

int A[]=new int[n];

int B[]=new int[n];

int C[]=new int[n];

System.out.println("Enter the elements");

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

{

A[i]=in.nextInt();

}

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

{

if(A[i]%2==0)

{

C[j]=A[i];

j++;

}

}

```

```
else
{
B[k]=A[i];
k++;

}
}
System.out.println("Even array elements:");
for(int i=0;i<j;i++)
{
System.out.println(+C[i]);
}
System.out.println("Odd array elements:");
for(int i=0;i<k;i++)
{
System.out.println(+B[i]);
}
for(int i=0;i<j ;i++)
{
sum+=C[i];
}
System.out.println("Sum of even array :"+sum);
double average = sum/j;
System.out.println("Average of even array :"+average);
int min= C[0];
int max = C[0];
for(int i=0;i<j;i++)
{
if(C[i]>=max)
{
max = C[i];
```

```
}  
if(C[i]<=min)  
{  
    min = C[i];  
}  
}  
System.out.println("Maxium and Minimum among even array is :"+max+" "+min);
```

```
}  
}
```

```
}  
}
```

```
beta
er for
bug.
ons <
SK
s of Use
onal +
Online

input
Enter the size of the array
5
Enter the elements
1
2
3
4
5
Even array elements:
2
4
Odd array elements:
1
3
5
Sum of even array :6
Average of even array :3.0
Maxium and Minimum among even array is :4 2

...Program finished with exit code 0
Press ENTER to exit console.
```