```java
import java.util.Scanner;
public class Main
{
public static void main(String[] args)
{
int n, sumE = 0, sumO = 0;
Scanner s = new
Scanner(System.in);
System.out.print("Enter the number
of elements in array:");
n = s.nextInt();
int[] a = new int[n];
System.out.println("Enter the
elements of the array:");
for(int i = 0; i < n; i++)
{
a[i] = s.nextInt();
}
for(int i = 0; i < n; i++)
{
if(a[i] % 2 == 0)
{
sumE = sumE + a[i];
```

```java
else
{
sumO = sumO + a[i];
}



}
else
{
sumO = sumO + a[i];
}

}
System.out.println("Sum of Even Numbers:"+sumE);
System.out.println("Sum of Odd Numbers:"+sumO);
}
```

```
Enter the number of elements in array:2
Enter the elements of the array:
7
5
Sum of Even Numbers:0
Sum of Odd Numbers:12


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

```java
PROGRAM—2
import java.util.Scanner;

public class Main
{
public static void main(String args[])
{
// intialize and declaring the objects.
int n,positive=0, negative=0, zero=0, i;
int arr[] = new int[50];
Scanner scan = new Scanner(System.in);

// enter number you have to enter.
System.out.print("How many Number you want to Enter : ");
n = scan.nextInt();
```

```java
// enter the numbers.
System.out.println("Enter " +n+ "
Numbers : ");

// this is to calculate the type of the
number.
for(i=0; i<n; i++)
{
arr[i] = scan.nextInt();
}
for(i=0; i<n; i++)
{
if(arr[i] < 0)
{
negative++;
}
else if(arr[i] == 0)
{
zero++;
}
else
{
positive++;
}
```

```java
}

// print all +ve,-ve and zero number.
System.out.print("Positive Numbers are: " + positive );
System.out.print("\nNegative Numbers are: " + negative );
System.out.print("\nZeros are: " + zero );
}
}
```

```
How many Number you want to Enter : 2
Enter 2 Numbers :
9
-5
Positive Numbers are: 1
Negative Numbers are: 1
Zeros are: 0

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

```java
PROGRAM---3
import java.util.Scanner;
public class Main {
public static void main(String[] args){
Scanner sc = new Scanner(System.in);

System.out.println("Enter the number of items:");
int n = sc.nextInt();
double indTot, tot = 0;
double[] rpi = new double[n];
int[] quant = new int[n];
for(int i = 0; i<n; i++){
System.out.println("enter quantity of purchase and rate per item for item"+(i+1));
int q = sc.nextInt();
double r = sc.nextDouble();
quant[i] = q;
```

```java
rpi[i] = r;
}
for(int i = 0; i<n; i++){
indTot = quant[i] * rpi[i] ;
tot += indTot;
}
if (tot >= 10000) {
System.out.println("Discount = 5%. Total bill = " + tot + " Discounted bill = " + (tot - tot * 0.05));
}

else if (tot >= 7500) {
System.out.println("Discount = 3%. Total bill = " + tot + " Discounted bill = " + (tot - tot * 0.03));
}
else if (tot >= 5000) {
System.out.println("Discount = 2%. Total bill = " + tot + " Discounted bill = " + (tot - tot * 0.02));
}
else{
System.out.println(" No discount. Total bill = " + tot );
}

}
}
```

```
Enter the number of items:
2
enter quantity of purchase and rate per item for item1
5
250
enter quantity of purchase and rate per item for item2
3
230
 No discount. Total bill = 1940.0


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

```java
PROGRAM---4
import java.util.Scanner;

public class Main {
public static void main(String[] args){
int n, j = 0, k = 0, sum = 0, avg, max , min;
Scanner s = new Scanner(System.in);
System.out.print("Enter the number of elements in array:");
n=s.nextInt();
int[] a = new int[n];
int[] b = new int[n];
int[] c = new int[n];
System.out.println("Enter the elements of the array:");
for(int i = 0;i<n;i++){
a[i] = s.nextInt();
}
```

```java
for(int i = 0;i<n;i++){
if (a[i] % 2 == 0) {
c[j] = a[i];
sum += a[i];
j++;
} else {
b[k] = a[i];
k++;
}
}
//avg = sum / j;
max = c[0];
min = 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("For the even array sum is "+sum+" average is "+(sum/j)+" maximum is "+max+" minimum
is "+min);
}
```

Enter the number of elements in array:2
Enter the elements of the array:
8
5
For the even array sum is 8 average is 8 maximum is 8 minimum is 8

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