

```
import java.util.Scanner;
class sum
{
public static void main(String args[])
{
int n;
Scanner sc = new Scanner(System.in);
System.out.print("Enter 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);
}
}
```

C:\Users\arpit>cd..

C:\Users>cd..

C:\>cd java lab

C:\java lab>javac array1.java

C:\java lab>java sum

Enter number of elements: 7

Enter the elements of array:

1

2

3

4

5

6

7

Sum of even positions: 16

Sum of odd positions: 12

C:\java lab>\_

```
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);
}
}
```

C:\Users\arpit>cd..

C:\Users>cd..

C:\>cd java lab

C:\java lab>javac array2.java

C:\java lab>java Type

Enter the length of Array :

5

Enter Numbers :

-3

6

0

4

-100

Positive Numbers are: 2

Negative Numbers are: 2

Zeros are: 1

C:\java lab>\_

```
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 and 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));
}
else if (total >= 5000) {
System.out.println("\nDiscount = 2%. \nTotal bill = " + total + "\nDiscounted bill = " + (total - total * 0.02));
}
else{
System.out.println(" \nNo discount \nTotal bill = " + total );
}
}
}
}
```

C:\Users\arpit>cd..

C:\Users>cd..

C:\>cd java lab

C:\java lab>javac array3.java

C:\java lab>java bill

Enter number of items:

4

enter quantity of purchase and rate per item for item1

2

100

enter quantity of purchase and rate per item for item2

3

500

enter quantity of purchase and rate per item for item3

11

190

enter quantity of purchase and rate per item for item4

8

200

Discount = 2%.

Total bill = 5390.0

Discounted bill = 5282.2

C:\java lab>

```
import java.util.Scanner;
class Practice
{
public static void main(String ss[])
{
Scanner sc= new Scanner(System.in);
int 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]);
}
System.out.println(B[j-1]);
}
else
{
}
```

```
C:\java lab>javac array4.java
```

```
C:\java lab>java Practice
```

```
Enter number of elements:
```

```
8
```

```
Enter all the elements:
```

```
1
```

```
2
```

```
3
```

```
4
```

```
5
```

```
6
```

```
7
```

```
8
```

```
Odd:
```

```
1
```

```
3
```

```
5
```

```
7
```

```
Even:
```

```
2
```

```
4
```

```
6
```

```
8
```

```
SUM = 20
```

```
AVERAGE = 5
```

```
MAXIMUM is = 8
```

```
MINIMUM is = 2
```

```
C:\java lab>_
```