

Q1) Accept an array and find the Sum of even and odd indices :

```
import java.util.Scanner;

class Main{

    public static void main(String[] args) {

        Scanner ss = new Scanner(System.in);

        System.out.println("Number of elements to be stored in an array");

        int n=ss.nextInt();

        int array[]=new int[n];

        int even=0;

        int odd=0;

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

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

            array[i]=ss.nextInt();

            if(i%2==0){

                even+=array[i];

            }

            else

                odd+=array[i];

        }

        System.out.println("Sum of Even Indices is:"+even+" And of Odd Indices is:"+odd);

    }

}
```

Output:

```
Number of elements to be stored in an array
5
Enter the elements
5
9
6
4
12
Sum of Even Indices is:23 And of Odd Indices is:13
```

//Q2) Accept an array and find the count of positive , negative and zeros in a given array

```
import java.util.Scanner;

class Main{

    public static void main(String[] args) {

        Scanner ss = new Scanner(System.in);

        System.out.println("Number of elements to be stored in an array");

        int n=ss.nextInt();

        int array[]=new int[n];

        int countPos=0;

        int countNeg=0;

        int countZero=0;

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

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

            array[i]=ss.nextInt();

            if(array[i]>0)

                countPos++;

            else if(array[i]<0)

                countNeg++;

            else countZero++;

        }

        System.out.println("Count of possitive num is:"+countPos+" \n Count of Negative num is:"+countNeg+"\n Count of Zeroes is:"+countZero);

    }

}
```

```
Number of elements to be stored in an array
5
Enter the elements
56
-7
0
36
-5
Count of possitive num is:2
Count of Negative num is:2
Count of Zeroes is:1
```

//Q3) Super market bill:

```
import java.util.Scanner;

class Main{

    public static void main(String[] args) {

        Scanner ss = new Scanner(System.in);

        System.out.println("Number of different items purchased");

        int n=ss.nextInt();

        double rate[]=new double[n];

        int quantity[]=new int[n];

        double sum=0;

        double grandTotal;

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

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

            System.out.println("Enter the product:"+(i+1)+" Rate");

            rate[i]=ss.nextDouble();

            System.out.println("product:"+(i+1)+"Quantity");

            quantity[i]=ss.nextInt();

            sum=sum+(rate[i]*quantity[i]);

        }

        grandTotal=sum;

        if(sum>=10000){

            sum=(sum*0.95);

        }

        else if(sum>=7500&&sum<10000){

            sum=(sum*0.97);

        }

        else if(sum>=5000){
```

```
sum=(sum*0.98);  
  
}  
  
System.out.println("Total bill amount:"+grandTotal+"\n After Discount Amount to be paid is: "+sum);  
  
}  
  
}
```

```
Number of different items purchased  
3  
Enter the Details  
Enter the product:1 Rate  
500  
product:1Quantity  
10  
Enter the product:2 Rate  
250  
product:2Quantity  
5  
Enter the product:3 Rate  
23.36  
product:3Quantity  
32  
Total bill amount:6997.52  
After Discount Amount to be paid is: 6857.569600000001  
  
...Program finished with exit code 0  
Press ENTER to exit console. □
```

//Q4) Bigg array to small arrays distrubutions:

```
import java.util.Scanner;

public class Main {

    public static void main(String[] args) {

        Scanner input = new Scanner(System.in);

        System.out.println("Number of elements to be entered:");

        int num = input.nextInt();

        int a[] = new int[num];

        int b[] = new int[num];

        int value,j=0,k=0;

        System.out.println("ENTER THE ELEMENTS:");

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

            value = input.nextInt();

            if(value%2==0) {

                a[j]=value;

                j++;

            }else {

                b[k]=value;

                k++;

            }

        }

        int sum=0;

        int small=a[0];

        int big = a[0];

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

            sum+=a[i];

            if(small>a[i]) {
```

```

        small = a[i];

    }

    if(big<a[i]) {

        big = a[i];

    }

}

System.out.println("\nElements of array B are:");

for(int q=0;q<k;q++) System.out.print("\t"+b[q]);

System.out.println("\nElements of array C are:");

for(int p=0;p<j;p++) System.out.print("\t"+a[p]);

System.out.println("\nSum of all integers in C "+sum);

System.out.println("Average of all integers in C "+(double)sum/k);

System.out.println("Smallest integer in C "+small);

System.out.println("Largest integer in C "+big);

}

}

```

Output:

```

Number of elements to be entered:
6
ENTER THE ELEMENTS:
1  2  3  4  5  6

Elements of array B are:
      1      3      5
Elements of array C are:
      2      4      6
Sum of all integers in C 12
Average of all integers in C 4.0
Smallest integer in C 2
Largest integer in C 6

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

```