

1) import java.util.Scanner;

class Array1 {

public static void main (String args[]) {

int n, i;

Scanner sc = new Scanner (System.in);

System.out.println("Enter length of array /n");

n = sc.nextInt();

int [] a = new int [n];

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

System.out.println("Enter value of element"+i);

a[i] = sc.nextInt();

}

int sum1=0, sum2=0;

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

sum1 = sum1 + a[i];

}

for (i=1; i<n; i+=2) {

sum2 = sum2 + a[i];

}

System.out.println ("Sum1 = " + sum1 + "\n Sum2 = "

+ sum2 );

}

}

2.) import java.util.Scanner;

class Array2 {

public static void main (String args[]) {

int n, i;

System.out.println ("Enter Size of Array ");

Scanner sc = new Scanner(System.in);

n = sc.nextInt();

int [] a = new int[n];

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

System.out.println ("Enter Element "+ i);

a[i] = sc.nextInt();

}

int positive=0, negative=0, zero=0;

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

if (a[i] > 0) {

positive++;

}

else if (a[i] < 0) {

negative++;

}

else {

zero++;

}

}

System.out.println ("positive "+ positive + " | negative "+  
negative + " zero "+ zero);

5.) import java.util. Scanner;

class SuperMarket {

public static void main (String args[]) {

int n, i;

System.out.println ("Enter no. of items");

Scanner sc = new Scanner (System.in);

n = sc.nextInt();

double [] price = new double [n];

int [] qty = new int [n];

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

System.out.println ("Enter price of item"+i);

price [i] = sc.nextDouble();

System.out.println ("Enter qty of item");

qty [i] = sc.nextInt();

}

double totalBill = 0, finalBill = 0, discount;

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

totalBill = totalBill + (price[i] \* qty[i]);

}

if (totalBill >= 10000) {

discount = 0.05 \* totalBill;

else if (totalBill >= 7500)

discount = 0.03 \* totalBill;

else if (totalBill >= 5000)

discount = 0.02 \* totalBill;

finalBill = totalBill - discount;

System.out.println ("Final: " + finalBill );

4.) import java.util.Scanner;

class Array3 {

public static void main (String args[]) {

int n, i;

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

Scanner sc = new Scanner(System.in);

n = sc.nextInt();

int[] A = new int[n];

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

System.out.println("Enter element "+i);

<sup>sc</sup>  
A[i] = sc.nextInt();

}

int odd=0, even=0;

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

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

even++;

else

odd++;

}

int[] B = new int[even<sup>odd</sup>];

int[] C = new int[even];

int x=0, y=0;



```
for(i=0; i<n; i++) {
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    if(A[i] % 2 == 0)
```

```
        C[n++] = A[i];
```

```
    else
```

```
        B[y++] = A[i];
```

```
}
```

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int sum=0, max, min;
```

```
double avg;
```

```
max = C[0];
```

```
min = C[0];
```

```
for(i=0; i<even; i++) {
```

```
    sum = sum + C[i];
```

```
    if(C[i] > max)
```

```
        max = C[i];
```

```
    if(C[i] < min)
```

```
        min = C[i];
```

```
}
```

```
avg = sum / even;
```

```
System.out.println("avg=" + avg + "\n sum=" + sum  
    + "\n max=" + max + "\n min=" + min);
```

```
}
```

```
}
```