

### → Week 3 extra programs

1) Import java.util.Scanner;

```
public class arrays {
```

```
    public static void main (String args[]) {  
        int nums[], i, n, sumEven = 0,  
        sumOdd = 0;
```

```
        Scanner sc = new Scanner (System.in);  
        System.out.println("Enter length of  
        array");
```

```
        n = sc.nextInt();
```

```
        nums = new int[n];
```

```
        for (i=0; i<nums.length; i++) {  
            System.out.println("Enter value of  
            element" + (i+1) + " in array");  
            nums[i] = sc.nextInt();  
        }
```

```
        for (i=0; i<nums.length; i++) {  
            if (nums[i] % 2 == 0) {  
                sumEven += nums[i];  
            } else {  
                sumOdd += nums[i];  
            }  
        }
```

```
}
```

```
System.out.println("Sum Even : " + sumEven);  
System.out.println("Sum odd : " + sumOdd);
```

```
2) import java.util.Scanner;  
public class count {  
    public static void main(String[] args) {  
        int nums[], i, n, count P=0;  
        count N=0, count Z=0;  
        Scanner sc = new Scanner(System.in);  
        System.out.println("Enter size of array");  
        n = sc.nextInt();  
        nums = new int[n];  
        for(i=0; i<nums.length; i++) {  
            System.out.println("Enter value of  
            element" + (i+1) + " in array");  
            nums[i] = sc.nextInt();  
        }  
        for(i=0; i<nums.length; i++) {  
            if (nums[i] > 0) {  
                count P++;  
            } else if (nums[i] == 0) {  
                count Z++;  
            } else {  
                count N++;  
            }  
        }  
    }  
}
```

```
System.out.println("No of +ve:" + countP +  
"No of -ve:" + countN +  
"No of 0's " + countZ);
```

```
3) import java.util.Scanner;  
  
public class marketbill {  
    public static void main(String arg[]) {  
        double rate[], totalBill=0, finalBill=0;  
        int quantity[], i, x;  
  
        Scanner sc = new Scanner(System.in);  
        System.out.println("Enter number of  
items!");  
  
        x = sc.nextInt();  
        rate = new double[x];  
        quantity = new quantityInt[x];  
  
        for (i=0; i<rate.length; i++) {  
            System.out.println("Enter rate of item" +  
            (i+1));  
  
            rate[i] = sc.nextDouble();  
            System.out.println("Enter quantity  
of item" + (i+1));  
  
            quantity[i] = sc.nextInt();  
        }  
    }  
}
```



```
total Bill += (rate[i] * quantity[i]);  
}
```

```
sc.close();
```

```
if (total Bill >= 10000) {  
    final Bill = (total Bill - (total Bill * 0.05));  
} else if (total Bill >= 7500 && total Bill < 10000) {  
    final Bill = (total Bill - (total Bill * 0.03));  
} else if (total Bill >= 5000) {  
    final Bill = (total Bill - (total Bill * 0.02));  
} else {  
    final Bill = total Bill;  
}
```

```
System.out.println("Total Bill: Rs " + total Bill);  
System.out.println("Final Bill: Rs " + final Bill);
```

4) import java.util.Scanner;

public class arrays2 {

public static void main(String args[]) {

int a[], b[], c[], n, sumEven = 0,  
min, max = 0, i, x, j = 0;

Scanner sc = new Scanner(System.in);

System.out.println("Enter length of  
array A:");

n = sc.nextInt();

a = new int[n];

int countOdd = 0, countEven = 0;

for (i = 0; i < a.length; i++) {

System.out.println("Enter value of  
element " + (i+1) + " of A:");

x = sc.nextInt();

a[i] = x;

if (x % 2 == 0) {

countEven++

} else {

countOdd++;

}

```
b = new int [countOdd];
```

```
c = new int [countEven];
```

```
for (i=0; i < a.length; i++) {
```

```
    if (a[i] % 2 != 0) {
```

```
        b[j] = a[i];
```

```
        j++;
```

```
    }
```

```
for (i=0; i < a.length; i++) {
```

```
    if (a[i] % 2 == 0) {
```

```
        c[j] = a[i];
```

```
        j++;
```

```
for (i=0; i < c.length; i++) {
```

```
    sumEven += c[i];
```

```
for (i=0; i < c.length; i++) {
```

```
    if (c[i] > max) {
```

```
        max = c[i]
```

```
    }
```

```
for (i=0; i < c.length; i++) {
```

```
    if (c[i] < min) {
```

```
        min = c[i];
```

```
System.out.println("Sum of C" + sumEven);  
System.out.println("Avg of C" + (sumEven/c.length));  
System.out.println("Max of C:" + max);  
System.out.println("min of C:" + min);  
}  
}
```