1)
```java
import java.util.Scanner;
Public class Array_Sum
{
public static void main (String[] args)
{
int n, even_sum=0, odd_sum=0;
Scanner in = new Scanner (System.in);
System.out.print (" Enter no of elements you want in array :");
n = in.nextInt ();
int a[] = new int [n];
System.out.println (" Enter all the elements :");
for (int i=0; i<n; i++)
{
a[i] = in.nextInt ();
}
for (int i=0; i<n; i++)
{
if (a[i]%2 == 0) {
even_sum = even_sum + a[i];
}
else {
odd_sum = odd_sum + a[i];
}
}
System.out.Println (" even sum : " + even_sum);
System.out.Println (" odd sum:" + odd_sum);
}
}
```

```java
a) import java.util.Scanner;
   public class count
   {
   public static void main (string [] args)
   {
   int n, cp=0, cn=0, cz=0;
   Scanner in = new Scanner (System.in);
   System.out.print(" Enter no. of elements you want in array:");
   n= in.next Int ();
   int a[] = new int [n];
   System.out.println(" Enter all the elements : ");
   for (int i =0; i<n; i++)
   {
   a[i]= in.nextInt ();
   }
   for (int i =0; i<n; i++)
   {
   if (a [i]>0)
   cp++;
   else if (a[i] <0)
   cn++;
   else
   cz++;
   }
   System.out.Println (" Positive numbers : " + cp);
   System.out.println(" negative numbers : " + cn);
   System.out.println (" Zero: " +cz);

   }
   }
```

3)

```java
import java.util.Scanner;
import java.lang.*;
public class Bill {
public static void main(String[] args) {
    double a[];
    int b[];
    Scanner in = new Scanner(System.in);
    System.out.print("Enter no of items x: ");
    int x = in.nextInt();
    a = new double[x];
    b = new int[x];
    System.out.println("Enter Rate of items and corresponding quantity");
    for(int i=0; i<x; i++)
    {
        a[i] = in.nextDouble();
        b[i] = in.nextInt();
    }
    double total = 0.0, f;
    for(int i=0; i<x; i++)
    {
        total = total + (a[i]*b[i]);
    }
    if(total >=10000)
        f = total - ((5 * total)/100);
    else if((total >= 7500) && (total <10000))
        f = (total - ((3 * total)/100));
    else if((total >= 5000) && (total < 7500))
        f = total - ((2 * total)/100);
    else
        f = total;
    System.out.println("The total bill amount is Rs: "+total);
    System.out.println("The final bill amount discount is Rs: "+f);
    }
}
```

```java
4) import java.util.Scanner;
   public class Main {
   public static void main(String args[]){
   Scanner in = new Scanner(System.in);
     int n, i, odd=0, even=0, j=0, k=0, sum=0, max, min;
       double avg;
   System.out.println(" Enter the number of elements in array ");
     n = in.nextInt();
     int a[] = new int [n];
   for(i=0; i<n; i++)
   {
System.out.println("Enter the " + (i+1) + "element ");
     a[i] = in.nextInt();
    if (a[i] % 2 == 0)
      even++;
       else
       odd++;
   }
   int b[] = new int [odd];
   int c[] = new int [even];
   for(i=0; i<n; i++)
     {
     if (a[i] % 2 != 0)
     {
   b[j] = a[i];
       j++;
     }
   else
   {
     c[k] = a[i];
     k++;
   }
   }
max = c[0];
min = c[0];
for(i=0; i<even; i++)
   {
```

```java
        sum = sum + c[i];
        if (min > c[i])
        min = c[i];
        else if (max < c[i])
        max = c[i];
    }
    avg = (double)sum/even;
    System.out.println("Maximum of array c is:" + max);
    System.out.println("Minimum of array c is:" + min);
    System.out.println("Sum of array c is:" + sum);
    System.out.println("Average of array c is:" + avg);
    }
}
```