Ans 1:-

```java
import java.util.Scanner;
class Testj {


    public static void main(String[] args) {
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter the size of arrays");
        int n=sc.nextInt();
        int s1=0,s2=0;
        int[] arr=new int[n];
        for(int i=0;i<n;i++){
            System.out.println("Enter the value of element");
            arr[i]=sc.nextInt();
            if(i%2==0){
                s1+=arr[i];
            }else{
                s2+=arr[i];
            }

        }
        System.out.println("The sum of even indices:"+s1+"\nThe sum of odd indices:"+s2);
    }

}
```

WEEK 3
Extra Questions

Ans1.
```java
import java.util.Scanner;
class Testj {
    public static void main (String[]args ){
        Scanner sc = new Scanner (System.in);
        System.out.println (" Enter the size of arrays");
        int n = sc.nextInt ();
        int s1 = 0, s2 = 0;
        int[] arr = new int [n];
        for ( int i = 0; i < n; i++){
            System.out.println ("Enter the value ");
            arr[i] = sc.nextInt ();
            if ( i%2 == 0) {
                s1 += arr[i];
            } else {
                s2 += arr[i];
            }
        }
        System.out.println (" The sum of even
              indices:" + s1 + " In The sum of odd indices:"
              + s2);
    }
}
```

Ans 2:-

```java
import java.util.Scanner;

class Testj {



    public static void main(String[] args) {

        Scanner sc=new Scanner(System.in);

        System.out.println("Enter the size of arrays");

        int n=sc.nextInt();

        int c1=0,c2=0,c3=0;

        int[] arr=new int[n];

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

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

            arr[i]=sc.nextInt();

            if(arr[i]==0){

                c1++;

            }else if(arr[i]<0){

                c2++;
```
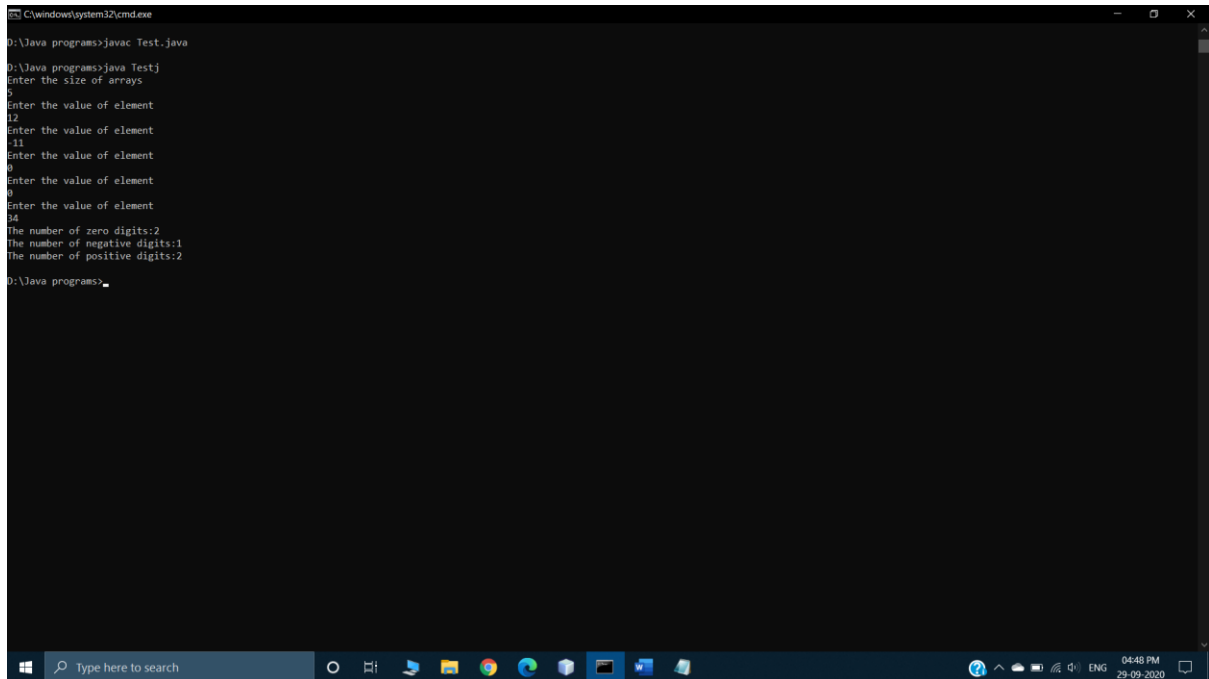
```java
        }else{
            c3++;
        }


    }
    System.out.println("The number of zero digits:"+c1+"\nThe number of negative
digits:"+c2+"\nThe number of positive digits:"+c3);
    }


}
```

Ans2:

```java
import java.util.Scanner;
class testj {
    public static void main (String[] args) {
        Scanner sc = new Scanner (System.in);
        System.out.println ("Enter size of arrays:");
        int n = sc.nextInt();
        int c1=0; c2=0; c3=0;
        int[] arr = new int[n];
        for (int i=0; i<n; i++) {
            System.out.println ("Enter the value of element");
            arr[i] = sc.nextInt();
            if (arr[i] == 0) {
                c1++;
            } else if (arr[i] < 0) {
                c2++;
            } else {
                c3++;
            }
        }
        System.out.println ("The number of zero digits" + c1 +
            "The number of negative digits:" + c2 +
            "In the number of positive digits:" + c3);
    }
}
```

```
C:\windows\system32\cmd.exe                                                    —  □  ×

D:\Java programs>javac Test.java

D:\Java programs>java Testj
Enter the size of arrays
5
Enter the value of element
12
Enter the value of element
-11
Enter the value of element
0
Enter the value of element
0
Enter the value of element
34
The number of zero digits:2
The number of negative digits:1
The number of positive digits:2

D:\Java programs>_
```

Ans 3:-

import java.util.Scanner;

class Testj {

   public static void main(String[] args) {

      Scanner sc=new Scanner(System.in);

      int i,j,total = 0;

      System.out.println("Enter the number of different things bought");

      int n=sc.nextInt();

      int[] a1=new int[n];

      int[] a2=new int[n];

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

         System.out.println("Enter the cost per item:");

         int cost=sc.nextInt();

```java
            a1[i]=cost;

            j=i;

            System.out.println("Enter the number of item bought");

            int num=sc.nextInt();

            a2[j]=num;

            total+=a1[i]*a2[j];

        }

        int t=0;

        if(total>=10000){

            t=total-((5*total)/100);

        }else if(total>=7500 && total<10000){

            t=total-((3*total)/100);

        }else if(total>=5000 && total<7500){

            t=total-((2*total)/100);

        }

        System.out.println("The total bill after discount is "+t);

    }

}
```

```java
Ans3.    import java.util.Scanner;
         class Test3 {
              public static void main(String[] args){
                  Scanner sc = new Scanner(System.in);
                  int i, j, total = 0;
                  System.out.println("Enter the number of different
                              things bought");
                  int n = sc.nextInt();
                  int[] a1 = new int[n];
                  int[] a2 = new int[n];
                  for(i = 0; i < n; i++){
                  System.out.println("Enter the cost per item");
                  int cost = sc.nextInt();
                  a1[i] = cost;
                  j = i;
                  System.out.println("Enter the number of items bought");
                  int num = sc.nextInt();
                  a2[j] = num;
                  total += a1[i]* a2[j];
                  }
                  int t = 0;
                  if (total >= 10000){
                      t = total - ((5* total)/100);
                  } else if ( total >= 7500 && total < 10000){
                      t = total - ((3* total)/100);
                  } else if (total > 5000 && total < 7500){
                      t = total - ((2* total)/100);
                  }
                  System.out.println("The total bill after discount is"
                              + t);
              }
         }
```

```
D:\Java programs>javac Test.java

D:\Java programs>java Testj
Enter the number of different things bought
3
Enter the cost per item:
2000
Enter the number of item bought
2
Enter the cost per item:
3000
Enter the number of item bought
1
Enter the cost per item:
2500
Enter the number of item bought
2
The total bill after discount is 11400

D:\Java programs>
```

Ans 4:-

import java.util.Scanner;

class Testj {

    public static void main(String[] args) {

        Scanner sc=new Scanner(System.in);

        int i=0,j=0,k=0,temp;

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

        int n=sc.nextInt();

        int[] A=new int[n];

        int[] B=new int[n];

        int[] C=new int[n];

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

            System.out.println("Enter the value:");

            A[i]=sc.nextInt();

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

```java
            B[j]=A[i];

            j++;

        }else{

            C[k]=A[i];

            k++;

        }

    }

    int sum=0;

    double avg = 0;

    int max=C[0],min=C[0];

    for(temp=0;temp<k;temp++){


        sum+=C[temp];


        avg=(double)sum/k;


        if(C[temp]>max){

            max=C[temp];

        }if(C[temp]<min){

            min=C[temp];

        }


    }
    System.out.println("The sum is "+sum+"\nThe average is "+avg+"\nThe maximum value is "+max+"\nThe minimum value is "+min);
    }



}
```

Ans.

```java
import java.util.Scanner;
class Test{
    public static void main (String [] args){
        Scanner sc = new Scanner (System.in);
        int i=0, j=0, k=0, temp;
        System.out.println (" Enter the number of elements");
        int n = sc.nextInt();
        int [] A = new int [n];
        int [] B = new int [n];
        int [] C = new int [n];
        for (i=0; i<n; i++){
            System.out.println (" Enter the value :");
            A[i] = sc.nextInt();
            if (A[i]%2 != 0){
                B[i] = A[i];
                j++;
            } else {
                C[k] = A[i];
                k++;
            }
        }
        int sum = 0;
        double avg =0;
        int max = C[0], min = C[0];
        for ( temp =0; temp < k; temp++)
        {
            sum += C[temp];
            avg = (double) sum / k;
            if (C[temp] > max){
                max = C[temp];
            } if ( C[temp]< min){
```

```java
                    min = c[temp];
            }
        }
        System.out.println("The sum is " + sum + "\n The average is "
            + avg + "\nThe maximum value is " + max + " The
        minimum value is " + min);
    }
}
```

```
C:\windows\system32\cmd.exe                                                                    —  □  ×

D:\Java programs>javac Test.java

D:\Java programs>java Testj
Enter the number of elements
10
Enter the value:
1
Enter the value:
2
Enter the value:
3
Enter the value:
4
Enter the value:
5
Enter the value:
6
Enter the value:
7
Enter the value:
8
Enter the value:
9
Enter the value:
10
The sum is 30
The average is 6.0
The maximum value is 10
The minimum value is 2

D:\Java programs>
```