1]. import java.util.Scanner;

```
class array {
    public static void main (String[] args){
    int n;
    int i, positivecount, negativecount;
    int i, even, odd;
    even=0;
    odd =0;
    Scanner s=new Scanner(System.in);
    System.out.println("Enter size");
     n = s.nextInt();
    int a[] =
    int[] a = new int[n];
    System.out.println("Enter elements of array;");
    for(int i=0; i<n; i++){
        a[i] = s.nextInt();
    }
```

```
for(int i=0; i<n ; i++){
    if (i%2 == 0){
        even += arr[i];
    }else{
        odd += arr[i];
    }
}
System.out.println("Even indicies positions sum: "+even);
System.out.println("odd indices positions sum:" +odd);
}
}
```

Practice programs

2.
```
import java.util.Scanner;
class array{
    public static void main (String args[]){
     Scanner s = new Scanner(System.in);
     int n, i;
     int positivecount = 0, negativecount = 0;
    System.out.println ("Enter the number of elements");
     n = s.nextInt();
     int [] a = new int[n];
    System.out.println ("Enter " + n + " elements of array:");
     for ( i=0; i<n ; i++) {
        a[i] = s.nextInt;
      }
      for(i=0 ; i<n ; i++) {
        if (a[i] >= 0){
            positivecount++;
        } else {
            negativecount++;
        }
      }
      System.out.println ("Positive number" + positivecount +
                          "negative number" + negativecount);
} }
```

3]
```
import java.util.Scanner;
class Bill{
    public static void main(String[] args){
     Scanner sc = new Scanner(System.in);
    System.out.println("Enter number of items");
    int n = sc.nextInt();
    double indTot, tot=0;
    double[] rpi = new double[n];
     int[] quant = new int[n];
    for(int i=0; i<n; i++){
      System.out.println("Enter quantity of
        purchase and rate per item for item "+(i+1));
     int q = sc.nextInt();
     double r = sc.nextDouble();
     quant[i] = q;
      rpi[i] = r;
}
```

```
for (int i=0 ; i<n; i++){
    indTot = quant[i] * rpi[i];
    tot += indTot;
}
 if (tot>=10000){
    System.out.println ("Discount = 5%. Total bill = "+tot+"
        Discounted bill ="+ (tot - tot* 0.05));
 } else if (tot>=7500){
    System.out.println("Discount = 3%. Total bill ="+tot+"
        Discounted bill = "+ (tot - tot* 0.03));
 } else if (tot>=5000){
    System.out.println("Discount = 2%. Total bill ="+ tot +
        "Discounted bill ="+(tot-tot* 0.02));
 } else {
    System.out.println ("No Discount total bill="+tot);
 }
}
```

4].
```
import java.util.Scanner;
class odd_even_array{
    public static void main (String [] args){
    int k=0, j=0, n, sum=0, max, min, avg;
    Scanner s=new Scanner (System.in);
    System.out.println("Enter the size");
    n = s.nextInt();
    int[] a = new int[n];
    int[] b = new int[n];
    int[] c = new int[n];
    System.out.println ("Enter the elements of Array:");
     for(int i=0; i<n; i++){
        a[i] = s.nextInt();
     }
     for(int i=0; i<n; i++){
        if (a[i]%2==0){
            c[j] = a[i];
            sum+ = a[i];
            j++;
        }else{
            b[k] = a[k];
            k++;
        }
    }
    avg = sum/j;
    max = c[0];
    min = c[0];
    for (int i=0; i<j; i++){
```

```
        if (c[i] > max){
         max = c[i];
        }
        if (c[i] < min){
          min = c[i];
        }
      }
      System.out.println ("For the even array
          sum is "+sum+" average is "+avg+" maxi
          -mum is "+max+" minimum is "+min);
    }
}
```