1)

```java
import java.util.*;
public class lab1e1 {
    public static void main(String args[]){
        Scanner in= new Scanner(System.in);
        System.out.println("Enter size of array");
        int n=in.nextInt();
        int a[]=new int[n];
        int eve=0,odd=0;
        System.out.println("Enter elements");
        for (int i=0;i<n;i++){
        a[i]=in.nextInt();
        if(i%2==0)
        eve+=a[i];
        else
        odd+=a[i];
    }
System.out.println("Sum of even indices elements: "+eve+"\n"+"Sum of odd indices elements: "+odd);
}
}
```

Output:

```
PROBLEMS 8   OUTPUT   DEBUG CONSOLE   TERMINAL

Enter size of array
5
Enter elements
1
2
3
4
5
Sum of even indices elements: 9
Sum of odd indices elements: 6
PS D:\Prg data\Java\OOJ Lab\Sample>
```

2)

```java
import java.util.*;
public class lab1e2 {
    public static void main(String args[]){
        Scanner in= new Scanner(System.in);
        System.out.println("Enter size of array");
        int n=in.nextInt();
        int a[]=new int[n];
        int pos=0,neg=0,zer=0;
        System.out.println("Enter elements");
        for (int i=0;i<n;i++){
        a[i]=in.nextInt();
```

```
        if(a[i]>0)
        pos++;
        if(a[i]<0)
        neg++;
        else
        zer++;
    }
System.out.println("Elements are as follows\nPositive: "+pos+"\n"+"Negative: "+neg+"\n"+"Zeros: "+zer)
;
}
}
```

Output:

```
PROBLEMS 8   OUTPUT   DEBUG CONSOLE   TERMINAL

Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS D:\Prg data> cd "d:\Prg data\Java\OOJ Lab\Sample\" ; if ($?) { javac lab1e2.java } ; if ($?) { j
Enter size of array
8
Enter elements
1
2
10
0
-4
-90
0
1
Elements are as follows
Positive: 4
Negative: 2
Zeros: 6
PS D:\Prg data\Java\OOJ Lab\Sample>
```

3)

```
import java.util.*;
public class lab1e3 {
    public static void main(String args[]){
        Scanner in= new Scanner(System.in);
        System.out.println("Enter number of items");
        int x=in.nextInt();
        double rate[]= new double[x];
        int quant[]=new int[x];
        double sum=0;
        for (int i=0;i<x;i++){
            System.out.println("Enter rate per item and quantity of item "+(i+1));
            rate[i]=in.nextDouble();
            quant[i]=in.nextInt();
```

```
            sum+=rate[i]*quant[i];
        }
        if (sum>=10000)
        sum-=sum*5/100;
        if(sum<10000 && sum>=7500)
        sum-=sum*3/100;
        if(sum<7500 && sum>=5000)
        sum-=sum*2/100;
        System.out.println("Amount after discount: "+sum);
        }
}
```

Output:

```
PROBLEMS 8   OUTPUT   DEBUG CONSOLE   TERMINAL

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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS D:\Prg data> cd "d:\Prg data\Java\OOJ Lab\Sample\" ; if ($?) { javac lab1e3.java } ;
Enter number of items
5
Enter rate per item and quantity of item 1
10
500
Enter rate per item and quantity of item 2
3
70
Enter rate per item and quantity of item 3
900
2
Enter rate per item and quantity of item 4
1000
5
Enter rate per item and quantity of item 5
900
10
Amount after discount: 19959.5
```

4)

```
import java.util.*;
public class lab1e4 {
    public static void main(String args[]){
        Scanner in= new Scanner(System.in);
        System.out.println("Enter number of elements");
        int n=in.nextInt();
        int A[]=new int[n];
        int eve=0,odd=0;
```

```
        for(int i=0;i<n;i++){
            System.out.println("Enter element");
            A[i]=in.nextInt();
            if(A[i]%2==0)
            eve++;
            else
            odd++;
        }
        int B[]=new int[odd];
        int C[]=new int[eve];
        int q=0,w=0;
        for(int i=0;i<n;i++){
            if(A[i]%2==0)
            C[q++]=A[i];
            else
            B[w++]=A[i];
        }
        System.out.println("EVEN");
        for(int i=0;i<eve;i++)
        System.out.println(C[i]);
        System.out.println("ODD");
        for(int i=0;i<odd;i++)
        System.out.println(B[i]);
        int max=C[0],sum=C[0],min=C[0];
        for(int i=1;i<eve;i++){
            sum+=C[i];
            if (C[i]>max)
            max=C[i];
            if (C[i]<min)
            min=C[i];
        }
        System.out.println("Even array has:\nMaximum: "+max+"\nMinimum: "+min+"\nSum: "+sum+"\nAverage
: "+(((float)sum)/eve));
}
}
```

Output:

PROBLEMS 8 OUTPUT DEBUG CONSOLE TERMINAL

```
Try the new cross-platform PowerShell https://aka.ms/pscore6

PS D:\Prg data> cd "d:\Prg data\Java\OOJ Lab\Sample\" ; if ($?) { javac lab1e4.java } ; if ($?)
Enter number of elements
10
Enter element
55
Enter element
12
Enter element
16
Enter element
97
Enter element
17
Enter element
86
Enter element
92
Enter element
66
Enter element
54
Enter element
10
EVEN
12
16
86
92
66
54
10
ODD
55
97
17
Even array has:
Maximum: 92
Minimum: 10
Sum: 336
Average: 48.0
```