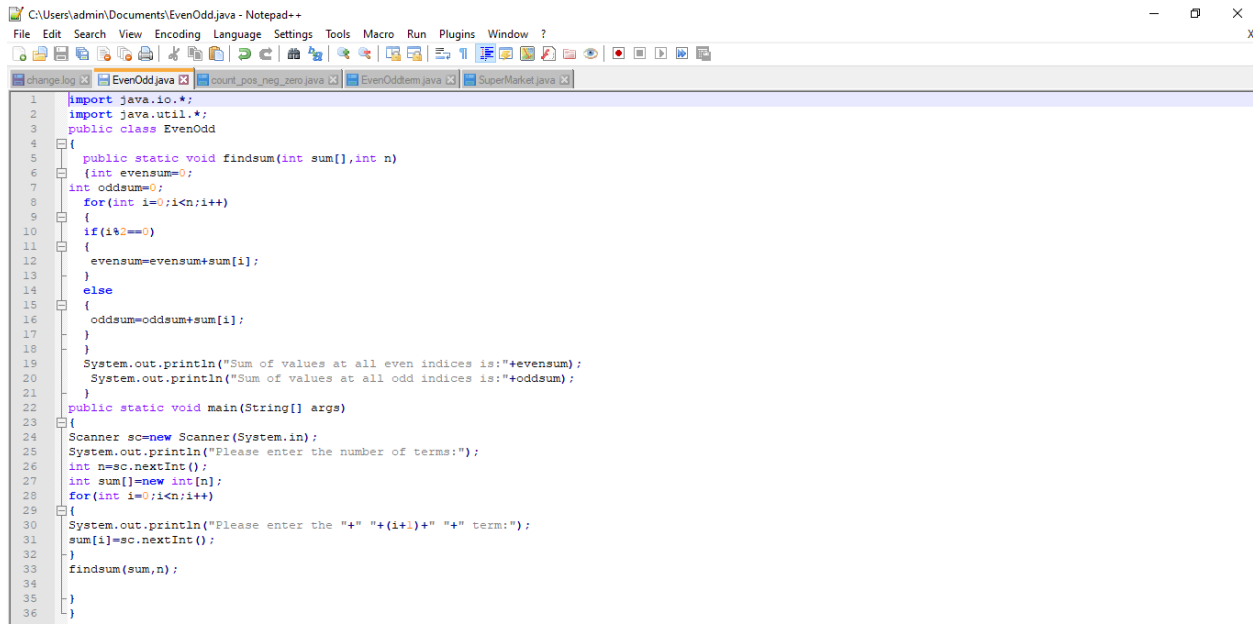


OOJ EXTRA LAB PROGRAMS

1.



```
1  import java.io.*;
2  import java.util.*;
3  public class EvenOdd
4  {
5      public static void findsum(int sum[],int n)
6      {
7          int evensum=0;
8          int oddsum=0;
9          for(int i=0;i<n;i++)
10         {
11             if(i%2==0)
12             {
13                 evensum=evensum+sum[i];
14             }
15             else
16             {
17                 oddsum=oddsum+sum[i];
18             }
19             System.out.println("Sum of values at all even indices is:"+evensum);
20             System.out.println("Sum of values at all odd indices is:"+oddsum);
21         }
22     }
23     public static void main(String[] args)
24     {
25         Scanner sc=new Scanner(System.in);
26         System.out.println("Please enter the number of terms:");
27         int n=sc.nextInt();
28         int sum[]=new int[n];
29         for(int i=0;i<n;i++)
30         {
31             System.out.println("Please enter the "+" "+(i+1)+" "+"+" term:");
32             sum[i]=sc.nextInt();
33         }
34         findsum(sum,n);
35     }
36 }
```

C:\Windows\system32\cmd.exe

Microsoft Windows [Version 10.0.18363.1082]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\admin>cd Documents

C:\Users\admin\Documents>set path="C:\Program Files\Java\jdk1.8.0_261\bin"

C:\Users\admin\Documents>javac EvenOdd.java

C:\Users\admin\Documents>java EvenOdd

Please enter the number of terms:

4

Please enter the 1 term:

1

Please enter the 2 term:

2

Please enter the 3 term:

3

Please enter the 4 term:

4

Sum of values at all even indices is:4

Sum of values at all odd indices is:6

C:\Users\admin\Documents>

2.

```
C:\Users\admin\Documents\count_pos_neg_zero.java - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?
change.log EvenOdd.java count_pos_neg_zero.java EvenOddItem.java SuperMarket.java
1 import java.io.*;
2 import java.util.*;
3 public class count_pos_neg_zero
4 {
5     public static void count(int cnt[],int n)
6     {
7         int cntz=0;
8         int cntn=0;
9         int cntp=0;
10
11         for(int i=0;i<n;i++)
12         {
13             if(cnt[i]==0)
14             {
15                 cntz++;
16             }
17             else if(cnt[i]<0)
18             {
19                 cntn++;
20             }
21             else if(cnt[i]>0)
22             {
23                 cntp++;
24             }
25         }
26         System.out.println("Count of zeroes is:"+cntz);
27         System.out.println("Count of negative numbers is:"+cntn);
28         System.out.println("Count of positive numbers is:"+cntp);
29     }
30
31     public static void main(String[] args)
32     {
33         Scanner sc=new Scanner(System.in);
34         System.out.println("Enter the number of terms");
35         int n=sc.nextInt();
36         int cnt[]=new int[n];
37         for(int i=0;i<n;i++)
38         {
39             for(int i=0;i<n;i++)
40             {
41                 if(cnt[i]==0)
42                 {
43                     cntz++;
44                 }
45                 else if(cnt[i]<0)
46                 {
47                     cntn++;
48                 }
49                 else if(cnt[i]>0)
50                 {
51                     cntp++;
52                 }
53             }
54             System.out.println("Count of zeroes is:"+cntz);
55             System.out.println("Count of negative numbers is:"+cntn);
56             System.out.println("Count of positive numbers is:"+cntp);
57         }
58     }
59
60     public static void main(String[] args)
61     {
62         Scanner sc=new Scanner(System.in);
63         System.out.println("Enter the number of terms");
64         int n=sc.nextInt();
65         int cnt[]=new int[n];
66         for(int i=0;i<n;i++)
67         {
68             System.out.println("Please enter the "+(i+1)+" term");
69             cnt[i]=sc.nextInt();
70         }
71
72         count(cnt,n);
73     }
74 }
```

C:\Windows\system32\cmd.exe

```
C:\Users\admin\Documents>java count_pos_neg_zero
Enter the number of terms
3
Please enter the 1 term
-1
Please enter the 2 term
2
Please enter the 3 term
0
Count of zeroes is:1
Count of negative numbers is:1
Count of positive numbers is:1

C:\Users\admin\Documents>
```

```
C:\Users\admin\Documents\SuperMarket.java - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?
change.log.txt EvenOdd.java count_pos_neg_zero.java EvenOddItem.java SuperMarket.java
1 import java.io.*;
2 import java.util.*;
3 public class SuperMarket
4 {
5     public static void main(String[] args)
6     {
7         double totalPrice=0;
8         double finalprice=0;
9         Scanner sc=new Scanner(System.in);
10        System.out.println("Please enter the number of items");
11        int n=sc.nextInt();
12        double rate[]=new double[n];
13        int qty[]=new int[n];
14        for(int i=0;i<n;i++)
15        {
16            System.out.println("Please enter the rate of item "+(i+1)+":");
17            rate[i]=sc.nextDouble();
18            System.out.println("Please enter the quantity of item "+(i+1)+":");
19            qty[i]=sc.nextInt();
20            totalPrice=totalPrice+(rate[i]*qty[i]);
21        }
22        if(totalPrice>=10000)
23        {
24            finalprice=totalPrice-(0.05*totalPrice);
25            System.out.println("THE FINAL BILL AMOUNT IS: "+finalprice);
26        }
27        else if(totalPrice>=7500 && totalPrice<10000)
28        {
29            finalprice=totalPrice-(0.03*totalPrice);
30            System.out.println("THE FINAL BILL AMOUNT IS: "+finalprice);
31        }
32        else if(totalPrice>=5000&&totalPrice<7000)
33        {
34            finalprice=totalPrice-(0.02*totalPrice);
35            System.out.println("THE FINAL BILL AMOUNT IS: "+finalprice);
36        }
37        else
38        {
39            double finalprice=0;
40            Scanner sc=new Scanner(System.in);
41            System.out.println("Please enter the number of items");
42            int n=sc.nextInt();
43            double rate[]=new double[n];
44            int qty[]=new int[n];
45            for(int i=0;i<n;i++)
46            {
47                System.out.println("Please enter the rate of item "+(i+1)+":");
48                rate[i]=sc.nextDouble();
49                System.out.println("Please enter the quantity of item "+(i+1)+":");
50                qty[i]=sc.nextInt();
51                totalPrice=totalPrice+(rate[i]*qty[i]);
52            }
53            if(totalPrice>=10000)
54            {
55                finalprice=totalPrice-(0.05*totalPrice);
56                System.out.println("THE FINAL BILL AMOUNT IS: "+finalprice);
57            }
58            else if(totalPrice>=7500 && totalPrice<10000)
59            {
60                finalprice=totalPrice-(0.03*totalPrice);
61                System.out.println("THE FINAL BILL AMOUNT IS: "+finalprice);
62            }
63            else if(totalPrice>=5000&&totalPrice<7000)
64            {
65                finalprice=totalPrice-(0.02*totalPrice);
66                System.out.println("THE FINAL BILL AMOUNT IS: "+finalprice);
67            }
68            else
69            {
70                finalprice=totalPrice;
71                System.out.println("SORRY YOU ARE NOT ELIGIBLE FOR DISCOUNT");
72                System.out.println("THE FINAL BILL AMOUNT IS: "+finalprice);
73            }
74        }
75    }
76 }
```

```
C:\Windows\system32\cmd.exe
C:\Users\admin\Documents>javac SuperMarket.java
C:\Users\admin\Documents>java SuperMarket
Please enter the number of items
3
Please enter the rate of item 1:
1000
Please enter the quantity of item 1:
1
Please enter the rate of item 2:
2000
Please enter the quantity of item 2:
1
Please enter the rate of item 3:
3000
Please enter the quantity of item 3:
2
THE FINAL BILL AMOUNT IS: 8730.0
C:\Users\admin\Documents>
```

4.

```

C:\Users\admin\Documents\EvenOddterm.java - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?
change.log EvenOdd.java count_pos_neg_zero.java EvenOddterm.java SuperMarket.java

1  import java.io.*;
2  import java.util.*;
3  public class EvenOddterm
4  {
5
6
7      public static void main(String[] args)
8      {
9          Scanner sc=new Scanner(System.in);
10         System.out.println("Please enter the number of terms:");
11         int n=sc.nextInt();
12         int a[]=new int[n];
13         int b[]=new int[n];
14         int c[]=new int[n];
15         for(int i=0;i<n;i++)
16         {
17             System.out.println("Please enter the "+" "+(i+1)+" "+" "+" term:");
18             a[i]=sc.nextInt();
19         }
20         {
21             int j=0;
22             int x=0;
23
24             int avg,temp;
25
26             int sum=0;
27             for(int i=0;i<n;i++)
28             {
29                 if(a[i]%2==0)
30                 {
31                     c[j]=a[i];
32                     j++;
33                 }
34                 else
35                 {
36                     b[x]=a[i];
37                     x++;
38                 }
39             }
40             int max=c[0];
41             int min=c[0];
42             for(int i=0;i<j;i++)
43             {
44                 sum=sum+c[i];
45                 if(c[i]>max)
46                 {
47                     max=c[i];
48                 }
49                 else if(c[i]<min)
50                 {
51                     min=c[i];
52                 }
53             }
54
55             avg=sum/j;
56             System.out.println("the sum is:"+sum);
57             System.out.println("the average is:"+avg);
58             System.out.println("the max is: "+max);
59             System.out.println("the min is:"+min);
60         }
61     }
62 }

```

```

C:\Windows\system32\cmd.exe
C:\Users\admin\Documents>javac SuperMarket.java

C:\Users\admin\Documents>java SuperMarket
Please enter the number of items
3
Please enter the rate of item 1:
1000
Please enter the quantity of item 1:
1
Please enter the rate of item 2:
2000
Please enter the quantity of item 2:
1
Please enter the rate of item 3:
3000
Please enter the quantity of item 3:
2
THE FINAL BILL AMOUNT IS: 8730.0

C:\Users\admin\Documents>_

```