Camlin Page
Date / /

1p1>

```
import java.util.Scanner;
public class lp1 {
    public static void main(String args []).
    {
        int n, sum1=0, sum2=0;
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter the number
        of array:");
        n= sc.nextInt();
        int [] a=new int[];
        for (int i=0; i<n; i++)
        {
            System.out.println("Enter the
            element" + (i+1)+ " of the array:");
            a[i] =sc.nextInt();
        }
        for (int i=0; i<n; i=i+2)
        {
            sum1+= a[i];
        }
        for (int i=1; i<n; i=i+2).
        {
            sum2+=a[i];
        }
        System.out.println("Sum of even indices="+sum1)
        System.out.println("Sum of odd indices="+sum2);
    }
}
```

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1p2)

```
import java.util.Scanner;
public class lp2{
    public static void main(String args[])
    {
        int n, pos=0, neg=0, zero=0;
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter the number of
        elements of the array:");
        n = sc.nextInt();
        int[] a = new int[n];
        for (int i=0; i<n; i++)
        {
            System.out.println("Enter the element "+(i+1)+
            " of the array:");
            a[i] = sc.nextInt();
        }
        for (int i=0; i<n; i++)
        {
            if (a[i]>0)
            {
                pos++;
            }
            else if (a[i]<0)
            {
                neg++;
            }
            else{
                zero++;
            }
        System.out.println("Total number of positive integers = "+pos);
        System.out.println("Total number of negative
        integers = "+neg);
        System.out.println("Total number of zeroes:"+
        zero);
    }
}
```

lp3>

```
import java.util.Scanner;
public class lp3{
    public static void main(String args[])
    {

        int x;
        double total_amount=0, final_amount=0;
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter the number of
        items:");
        x=sc.nextInt();
        double[] item= new double[x];
        int[] quantity= new int[x];
        for (int i=0; i<x; i++)
        {
            System.out.println("Enter the rate of
            item"+(i+1));
            item[i]= sc.nextDouble();
            System.out.println("Enter the quantity
            of item"+(i+1)+" purchased by the
            customer");
            quantity[i]=sc.nextInt();
        }
        for (int i=0; i<n; i++)
        {
            total_amount =item[i]*quantity[i];
        }
        if (total_amount>10000)
        {
            final_amount = total_amount-(0.05*
            total_amount);
        }
        else if (total_amount>=7500)
        {
            final_amount= total_amount-(0.03*
            total_amount);
        }
        else if(total_amount>=5000)
```

```
        else {
            final_amount = total_amount;
        }
        System.out.println("The total bill amount = " +
        total_amount);
        System.out.println("The final bill amount after
        giving discounts = " + final_amount);
    }
}
```

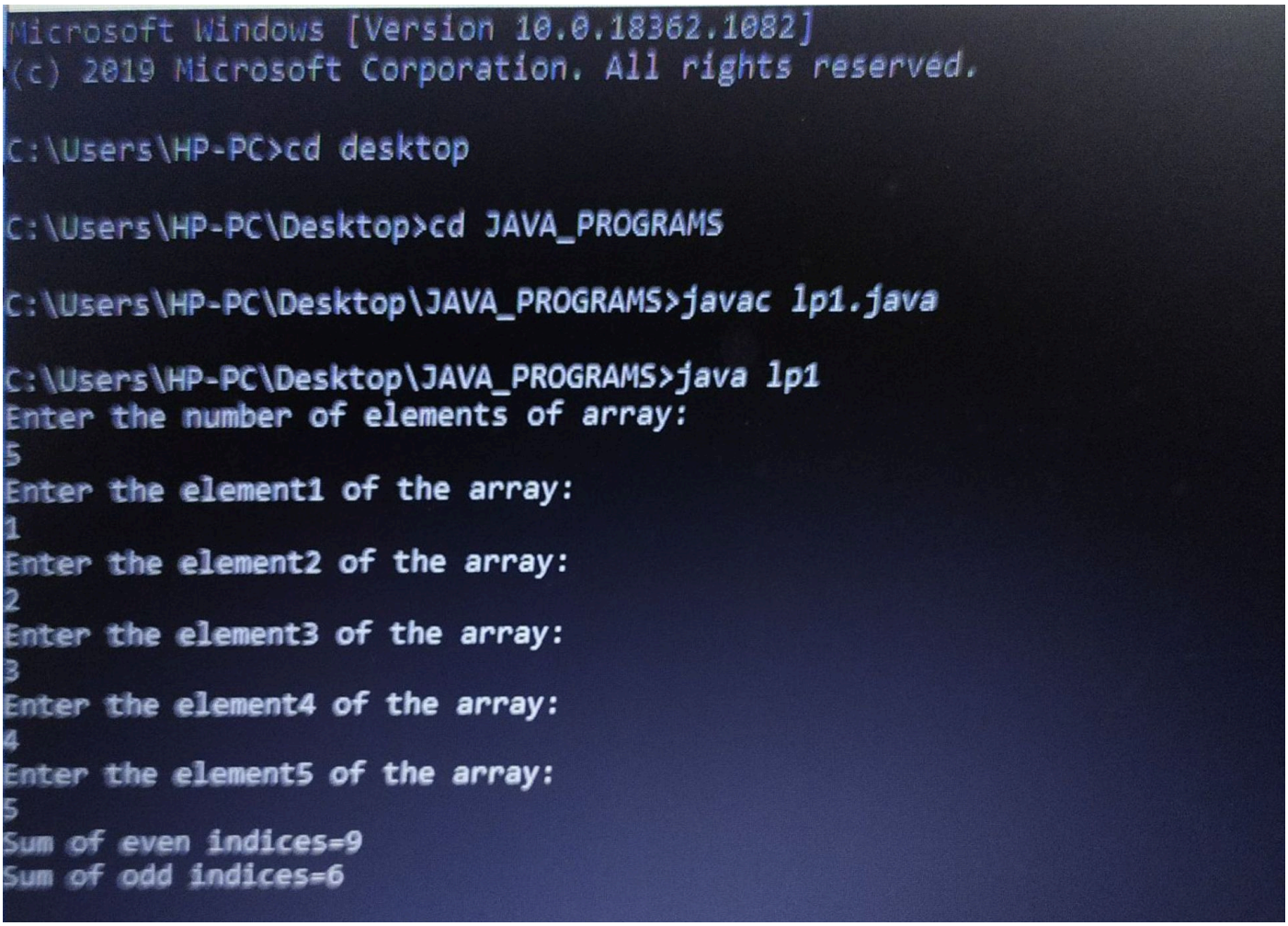
lp4

```
import java.util.Scanner;
public class lp4{
    public static void main(String args[])
    {
        int n, sum=0, m=0, max, min, j=0, k=0;
        float avg;
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter the numbers of elements
        for the array A:");
        n = sc.nextInt();
        int[] A = new int[n];
        int[] B = new int[n];
        int[] C = new int[n];
        for (int i=0 ; i<n; i++){
        {
            System.out.println("Enter the element" + (i+1) +
            " of the array A :");
            A[i] = Sc.nextInt();
        }
        for (int i=0 ; i<n ; i++)
        {
            if (A[i]%2 == 0)
            {
                if (A[i]%2 != 0)
                {
                    B[i] = A[i];
```

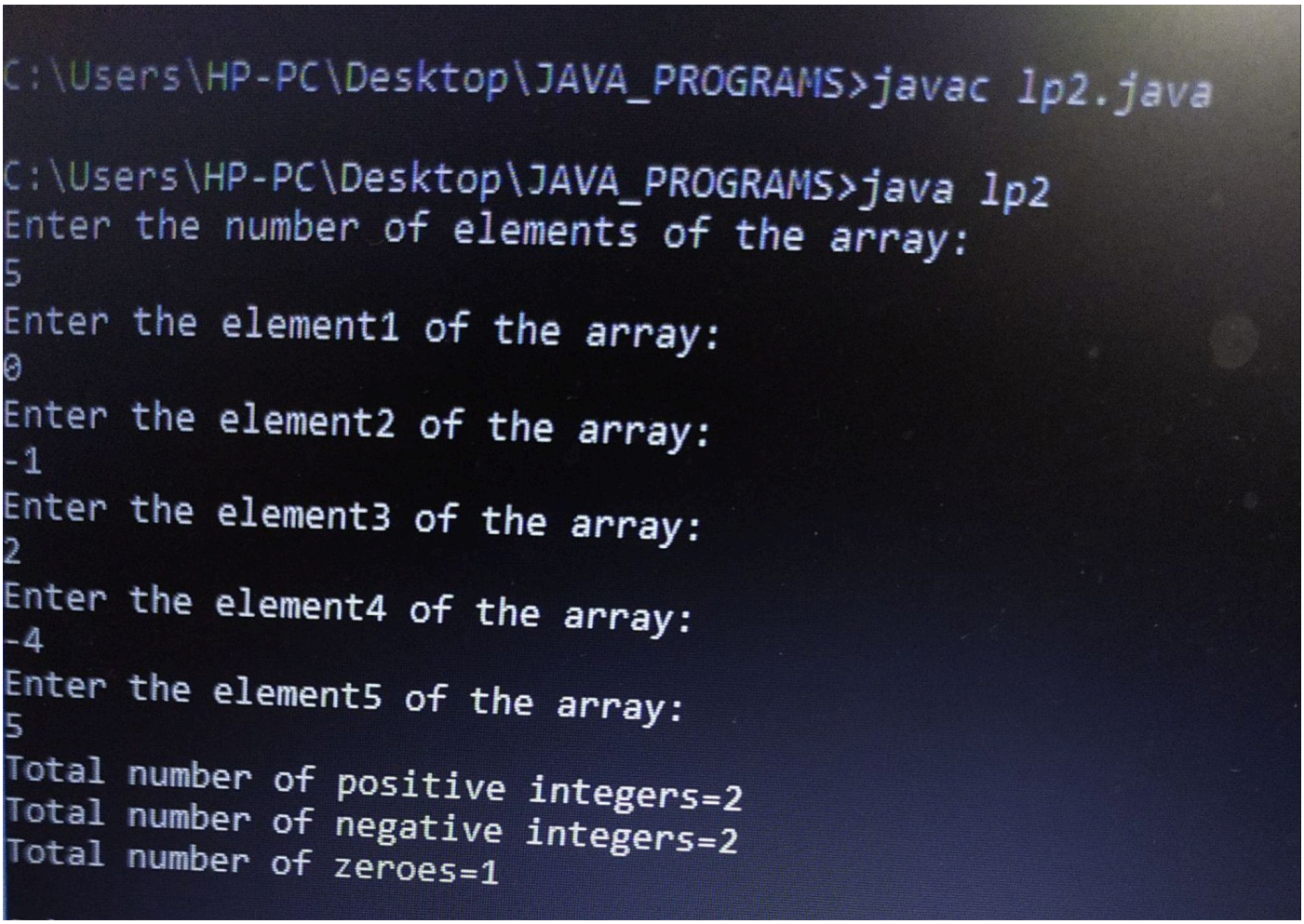
```
            i++;
        }
        else{
            C[k] = A[i];
            sum+= C[i];
            k++;
            m++;
        }
    }

    max = C[0];
    min = C[0];
    avg = (float) sum/m;
    for (int i=0; i<m; i++)
    {
        if (C[i]>max)
        {
            max = C[i];
        }
        if (C[i] <min)
        {
            min=C[i];
        }
    }
    System.out.println("The sum of all the elements
    of the array C =" +sum);
    System.out.println(" The average of all the element
     of the array. C=" +avg);
     System.out.println( " The maximum element in array
     C =" +max);
     system.out.println(" The minimum element in
     array C = "+min);
    }
}
```

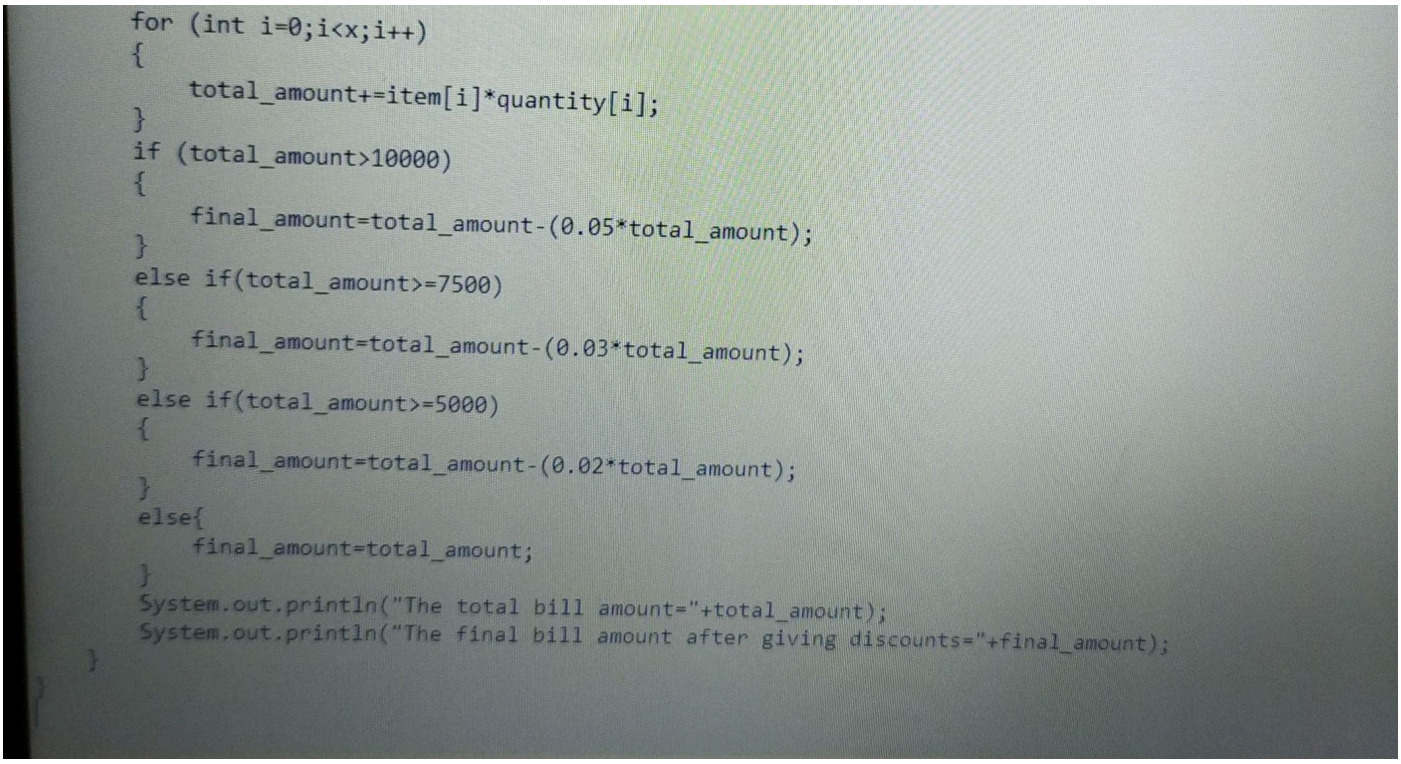
```java
import java.util.Scanner;
public class lp1 {
    public static void main(String args[])
    {
        int n,sum1=0,sum2=0;
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter the number of elements of array:");
        n=sc.nextInt();
        int[] a=new int[n];
        for (int i=0;i<n;i++)
        {
            System.out.println("Enter the element"+(i+1)+" of the array:");
            a[i]=sc.nextInt();
        }
        for (int i=0;i<n;i=i+2)
        {
            sum1+=a[i];
        }
        for (int i=1;i<n;i=i+2)
        {
            sum2+=a[i];
        }
        System.out.println("Sum of even indices="+sum1);
        System.out.println("Sum of odd indices="+sum2);
    }
}
```


Microsoft Windows [Version 10.0.18362.1082]
(c) 2019 Microsoft Corporation. All rights reserved.
C:\Users\HP-PC>cd desktop
C:\Users\HP-PC\Desktop>cd JAVA_PROGRAMS
C:\Users\HP-PC\Desktop\JAVA_PROGRAMS>javac lp1.java
C:\Users\HP-PC\Desktop\JAVA_PROGRAMS>java lp1
Enter the number of elements of array:
5
Enter the element1 of the array:
1
Enter the element2 of the array:
2
Enter the element3 of the array:
3
Enter the element4 of the array:
4
Enter the element5 of the array:
5
Sum of even indices=9
Sum of odd indices=6

```java
import java.util.Scanner;
public class lp2 {
    public static void main(String args[])
    {
        int n,pos=0,neg=0,zero=0;
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter the number of elements of the array:");
        n=sc.nextInt();
        int[] a=new int[n];
        for (int i=0;i<n;i++)
        {
            System.out.println("Enter the element"+(i+1)+" of the array:");
            a[i]=sc.nextInt();
        }
        for (int i=0;i<n;i++)
        {
            if (a[i]>0)
            {
                pos++;
            }
            else if (a[i]<0)
            {
                neg++;
            }
            else
            {
                zero++;
            }
        }
        System.out.println("Total number of positive integers="+pos);
        System.out.println("Total number of negative integers="+neg);
        System.out.println("Total number of zeroes="+zero);
    }
}
```


C:\Users\HP-PC\Desktop\JAVA_PROGRAMS>javac lp2.java
C:\Users\HP-PC\Desktop\JAVA_PROGRAMS>java lp2
Enter the number of elements of the array:
5
Enter the element1 of the array:
0
Enter the element2 of the array:
-1
Enter the element3 of the array:
2
Enter the element4 of the array:
-4
Enter the element5 of the array:
5
Total number of positive integers=2
Total number of negative integers=2
Total number of zeroes=1

```java
import java.util.Scanner;
public class lp3 {
    public static void main(String args[])
    {
        int x;
        double total_amount=0,final_amount=0;
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter the number of items:");
        x=sc.nextInt();
        double[] item=new double[x];
        int[] quantity=new int[x];
        for (int i=0;i<x;i++)
        {
            System.out.println("Enter the rate of item"+(i+1));
            item[i]=sc.nextDouble();
            System.out.println("Enter the quantity of item"+(i+1)+" purchased by the customer");
            quantity[i]=sc.nextInt();
        }
        for (int i=0;i<x;i++)
        {
            total_amount+=item[i]*quantity[i];
        }
        if (total_amount>10000)
        {
            final_amount=total_amount-(0.05*total_amount);
        }
        else if(total_amount>=7500)
        {
            final_amount=total_amount-(0.03*total_amount);
        }
        else if(total_amount>=5000)
        {
            final_amount=total_amount-(0.02*total_amount);
        }
        else{
            final_amount=total_amount;
```



```
        for (int i=0;i<x;i++)
        {
            total_amount+=item[i]*quantity[i];
        }
        if (total_amount>10000)
        {
            final_amount=total_amount-(0.05*total_amount);
        }
        else if(total_amount>=7500)
        {
            final_amount=total_amount-(0.03*total_amount);
        }
        else if(total_amount>=5000)
        {
            final_amount=total_amount-(0.02*total_amount);
        }
        else{
            final_amount=total_amount;
        }
        System.out.println("The total bill amount="+total_amount);
        System.out.println("The final bill amount after giving discounts="+final_amount);
    }
}
```

```
C:\Users\HP-PC\Desktop\JAVA_PROGRAMS>javac lp3.java

C:\Users\HP-PC\Desktop\JAVA_PROGRAMS>java lp3
Enter the number of items:
5
Enter the rate of item1
12
Enter the quantity of item1 purchased by the customer
4
Enter the rate of item2
23
Enter the quantity of item2 purchased by the customer
5
Enter the rate of item3
34
Enter the quantity of item3 purchased by the customer
7
Enter the rate of item4
19
Enter the quantity of item4 purchased by the customer
8
Enter the rate of item5
34
Enter the quantity of item5 purchased by the customer
1
The total bill amount=587.0
The final bill amount after giving discounts=587.0
```

```
import java.util.Scanner;
public class lp4 {
    public static void main(String args[])
    {
        int n,sum=0,m=0,max,min,j=0,k=0;
        float avg;
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter the number of elements for the array A:");
        n=sc.nextInt();
        int[] A=new int[n];
        int[] B=new int[n];
        int C[]=new int[n];
        for (int i=0;i<n;i++) {
            System.out.println("Enter the element" + (i + 1) + " of the array A:");
            A[i] = sc.nextInt();
        }
        for (int i=0;i<n;i++)
        {
            if (A[i]%2!=0)
            {
                B[j]=A[i];
                j++;
            }
            else{
                C[k]=A[i];
                sum+=C[i];
                k++;
                m++;
            }
        }
        max=C[0];
        min=C[0];
        avg=(float)sum/m;
        for (int i=0;i<m;i++)
        {
            if (C[i]>max) {
```

```
        for (int i=0;i<n;i++)
        {
            if (A[i]%2!=0)
            {
                B[j]=A[i];
                j++;
            }
            else{
                C[k]=A[i];
                sum+=C[i];
                k++;
                m++;
            }
        }
        max=C[0];
        min=C[0];
        avg=(float)sum/m;
        for (int i=0;i<m;i++)
        {
            if (C[i]>max) {
                max = C[i];
            }
            if (C[i]<min){
                min=C[i];
            }
        }
        System.out.println("The sum of all the elements of the array C="+sum);
        System.out.println("The average of all the elements of the array C="+avg);
        System.out.println("The maximum element in array C="+max);
        System.out.println("The minimum elemeny in array C="+min);
    }
}
```

```
C:\Users\HP-PC>cd Desktop

C:\Users\HP-PC\Desktop>cd JAVA_PROGRAMS

C:\Users\HP-PC\Desktop\JAVA_PROGRAMS>javac lp4.java

C:\Users\HP-PC\Desktop\JAVA_PROGRAMS>java lp4
Enter the number of elements for the array A:
5
Enter the element1 of the array A:
1
Enter the element2 of the array A:
3
Enter the element3 of the array A:
2
Enter the element4 of the array A:
5
Enter the element5 of the array A:
6
The sum of all the elements of the array C=8
The average of all the elements of the array C=4.0
The maximum element in array C=6
The minimum elemeny in array C=2
```