

Subject 6 : 76

SGPA : 7.69

Pooja.K

LAB-1

IBMI9ACSI11

Extra programs

09/10/20

1. // accept array, print sum of odd & even num.

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

{

```
System.out.println ("Sum of Even  
Numbers: " + sumE);
```

```
System.out.println ("Sum of odd  
Numbers: " + sumO);
```

{

{

2. Accept array, find +ve, -ve & zeros.

```
import java.util.Scanner;
```

```
class FindNums {
```

```
public static void main (String args[]) {
```

```
int n, i;
```

```
int positiveCount=0, negativeCount=0, zeroCount=0;
```

```
Scanner s = new Scanner (System.in);
```

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

```
n = s.nextInt();
```

```
int [] a = new int [n];
```

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

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

```
{
```

```
a[i] = s.nextInt();
```

```
}
```

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

```
{
```

```
if (a[i]>0)
```

```
{ positiveCount++; }
```

```
else if (a[i]==0)
```

```
{ zeroCount++; }
```

```
}
```

```
        else
        {
            negativeCount++;
        }
    }

System.out.println("Number of Positive
number = " + positiveCount);
System.out.println("Number of negative
numbers in array = " + negativeCount);
}
```

3. // Super market bill

```
import java.util.Scanner;
class Superbill {
    public static void main(String args[]) {
        int x;
        int[] rate = new int[x];
        Scanner s = new Scanner(System.in);
        System.out.println("Enter number of items
purchased");
        x = s.nextInt();
        double[] rate = new double[x];
        int[] quantity = new int[x];
        for (int i=0; i<x; i++)
        {
            System.out.println(
                "Enter the rate and quantity of item");
            rate[i] = s.nextDouble();
            quantity[i] = s.nextInt();
        }
        int amount = 0, tot_bill;
        for (int i=0; i<x; i++)
        {
            amount += rate[i] * quantity[i];
        }
        tot_bill = amount;
    }
}
```

{

amount = amount + (rate[i] * quantity[i])

}

System.out.println("The total bill is "+amount);

if (amount >= 10,000)

{ total bill = amount - (5/100)amount;

}

if (amount >= 7500 && amount < 10,000)

{ total bill = amount - (3/100)amount;

}

if (amount >= 5000 && amount < 7500)

}

total bill = amount - (2/100)amount;

System.out.println("The final bill is "+total
bill);{
}

4. // odd, even, sum, average, max, min of array.

import java.util.Scanner;

public static int Max(int[] a) {

int max = a[0];

for (int i = 0; i < a.length; i++) {

if (a[i] > max) {

max = a[i];

}

}

return max;

{

```
public static int Min (int[] a) {  
    int min = a[0];  
    for (int i=0; i<a.length; i++) {  
        if (a[i]<min) {  
            min = a[i];  
        }  
    }  
    return min;  
}
```

```
class ArrayOper {  
    public static void main (String[] args) {  
        int n, sum = 0;  
        Scanner s = new Scanner (System.in);  
        int[] a = new int [a.length];  
        System.out.println ("Enter the number of  
elements in the array");  
        n = s.nextInt();  
        int[] a = new int [n];  
        for (i=0; i<n; i++)  
        {  
            System.out.println ("Enter element " + (i+1) + " of  
the array");  
            a[i] = s.nextInt();  
        }  
        int j=0, k=0;  
        int odd [] = new int [n];  
        int even [] = new int [n];  
        for (int i=0; i<n; i++)  
        {  
            if (a[i] % 2 != 0)  
                odd[j] = a[i];  
            else  
                even[k] = a[i];  
            j++;  
            k++;  
        }  
        System.out.println ("Odd elements are ");  
        for (int i=0; i<j; i++)  
            System.out.print (odd[i] + " ");  
        System.out.println ();  
        System.out.println ("Even elements are ");  
        for (int i=0; i<k; i++)  
            System.out.print (even[i] + " ");  
    }  
}
```

```
j++;  
}  
else  
{  
    even[k] = a[i];  
    k++;  
}  
}  
System.out.println("Odd:");  
for (int i=0; i<(j-1); i++)  
{  
    System.out.print(odd[i] + "," );  
}  
System.out.print(odd[j-1]);  
  
System.out.println(" ");  
System.out.print("Even:");  
for (int i=0; i<(k-1); i++)  
{  
    System.out.print(even[i] + ",");  
}  
System.out.print(even[k-1]);  
for (i=0; i<n; i++)  
{  
    sum = sum + a[i];  
}  
int avg = sum/n;  
System.out.println("Sum of element = "+sum);  
System.out.println("Average of elements = "+avg);  
System.out.println("Max = "+max());  
System.out.println("Min = "+min());  
}
```

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```
import java.util.Scanner;
public class Sumoddeven
{
    public static void main(String[] args)
    {
        int n, sumE = 0, sumO = 0;
        Scanner s = new Scanner(System.in);
        System.out.print("Enter the number of elements in array:");
        n = s.nextInt();
        int[] a = new int[n];
        System.out.println("Enter the elements of the array:");
        for(int i = 0; i < n; i++)
        {
            a[i] = s.nextInt();
        }
        for(int i = 0; i < n; i++)
        {
            if(a[i] % 2 == 0)
            {
                sumE = sumE + a[i];
            }
            else
            {
                sumO = sumO + a[i];
            }
        }
        System.out.println("Sum of Even Numbers:"+sumE);
        System.out.println("Sum of Odd Numbers:"+sumO);
    }
}
```



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

C:\Users\Pooja K>cd desktop

C:\Users\Pooja K\Desktop>javac Sumoddeven.java

C:\Users\Pooja K\Desktop>java Sumoddeven

Enter the number of elements in array:5

Enter the elements of the array:

2

3

4

5

6

7

Sum of Even Numbers:12

Sum of Odd Numbers:8

C:\Users\Pooja K\Desktop>_

Findnums.java - Notepad

```
File Edit Format View Help
import java.util.Scanner;
public class Findnums {
public static void main(String[] args)
{
int n, i;
int positivecount = 0, negativecount = 0, zerocount=0;
Scanner sc = new Scanner(System.in);

System.out.print(" Please Enter Number of elements in an array : ");
n = sc.nextInt();

int [] a = new int[n];

System.out.print(" Please Enter " + n + " elements of an Array : ");
for (i = 0; i < n; i++)
{
a[i] = sc.nextInt();
}

for(i = 0; i < n; i++)
{
if(a[i] > 0)
{
    positivecount++;
}
else if(a[i]== 0)
{
    zerocount++;
}
else
{
    negativecount++;
}
}
```



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```
int [] a = new int[n];

System.out.print(" Please Enter " + n + " elements of an Array : ");
for (i = 0; i < n; i++)
{
    a[i] = sc.nextInt();
}

for(i = 0; i < n; i++)
{
    if(a[i] > 0)
    {
        positivecount++;
    }
    else if(a[i]== 0)
    {
        zerocount++;
    }
    else
    {
        negativecount++;
    }
}
System.out.println("\n Total Number of Positive Numbers in this Array = " + positivecount);
System.out.println("\n Total Number of Negative Numbers in this Array = " + negativecount);
System.out.println("\n Total Number of zero in this Array = " + zerocount);
}
```



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Command Prompt

```
C:\Users\Pooja K\Desktop>java Findnums  
Please Enter Number of elements in an array : 6  
Please Enter 6 elements of an Array : 2
```

```
4  
6  
0  
-1  
-5
```

Total Number of Positive Numbers in this Array = 3

Total Number of Negative Numbers in this Array = 2

Total Number of zero in this Array = 1

```
C:\Users\Pooja K\Desktop>
```

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```
import java.util.Scanner;
class Superbill{
public static void main(String args[]){
int x;
Scanner s=new Scanner(System.in);
System.out.println("Enter number of items purchased");
x=s.nextInt();
double[] rate=new double[x];
int[] quantity=new int[x];
for(int i=0;i<x ;i++)
{
System.out.println("Enter the rate and quantity of item "+(i+1));
rate[i]=s.nextDouble();
quantity[i]=s.nextInt();
}
double total_bill=0,final_bill=0;
for(int i=0;i<x;i++)
{
total_bill=total_bill+(rate[i]*quantity[i]);
}
System.out.println("the total bill is "+total_bill);
if(total_bill>=5000){
if(total_bill>=10000)
{
final_bill=total_bill-((5/100)*total_bill);
}
if(total_bill>=7500&& total_bill<10000 )
{
final_bill=total_bill-((3/100)*total_bill);
}
if(total_bill>=5000&& total_bill<7500)
{
final_bill=total_bill-((2/100)*total_bill);
}
```



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```
double[] rate=new double[x];
int[] quantity=new int[x];
for(int i=0;i<x ;i++)
{
System.out.println("Enter the rate and quantity of item "+(i+1));
rate[i]=s.nextDouble();
quantity[i]=s.nextInt();
}
double total_bill=0,final_bill=0;
for(int i=0;i<x;i++)
{
total_bill=total_bill+(rate[i]*quantity[i]);
}
System.out.println("the total bill is "+total_bill);
if(total_bill>=5000){
if(total_bill>=10000)
{
final_bill=total_bill-((5/100)*total_bill);
}
if(total_bill>=7500&& total_bill<10000 )
{
final_bill=total_bill-((3/100)*total_bill);
}
if(total_bill>=5000&& total_bill<7500)
{
final_bill=total_bill-((2/100)*total_bill);
}
System.out.println("the final bill is "+final_bill);
}
}
}
```



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```
new Scanner(System.in);
    println("Enter number of items purchased");
}
int
int item;
int sum = 0;
int i;
int quantity;
double rate;
double totalBill;
double finalBill;

public static void main(String[] args) {
    System.out.println("Enter number of items purchased");
    int n = Integer.parseInt(args[0]);
    for (i = 1; i <= n; i++) {
        System.out.print("Enter the rate and quantity of item " + i);
        String input = System.console().readLine();
        String[] parts = input.split(" ");
        quantity = Integer.parseInt(parts[0]);
        rate = Double.parseDouble(parts[1]);
        totalBill = quantity * rate;
        sum += totalBill;
    }
    finalBill = sum - (sum * 0.05);
    System.out.println("the total bill is " + sum);
    System.out.println("the final bill is " + finalBill);
}
```