Date __/__/____

Saathi

Find the sum of elements at Even and odd indices of array.

```
import java.lang.*;
import java.util.*;
import java.io.*;
Public class extra2
{
  private static int[] a;
  private static int n;
  public static void read()
  {
    Scanner sc=new
    Scanner (system.in);
    System.out.println ("Enter the number
of Elements of array");
    n=sc.nextint ();
    a= new int [n];
  System.out.println ("Enter the elements
    of Array");
  for (int i=0; i<n; i++)
    {
      a[i] = sc.nextint ();
    }
  }
  Public static void calc()
  {  read ();
double Sum_even = 0;
double sum_odd = 0;
for (int i=0; i<n; i+=2)
{
      sum_even + = a[i];
  }
      for (int i=1; i<n; i+=2)
```

Page No.

Date __/__/__

```
{   Sum_odd += a[i];
}
    System.out.println("Sum of Numbers
    At Even position is" + Sum_Even);

    System.out.println("sum of Numbers
        At odd position is" + Sum_odd);
}
    Public Static void main (String[] ary)
{
    calc ();
}
}
```

OUTPUT :

Enter the numbers of Elements of Array

1
2
3
4
5

Sum of numbers Even position is 9
Sum of numbers odd position is 6

Saathi

Date __/__/____

Program to find no. of +ve, -ve and zero's in an array.

```
import java.io.*;
import java.util.*;
public class extra2
{
 Private Static int [] n;
 Private static int c_pos = 0;
 private static int c_neg = 0;
 Private static int c_zer = 0;
 Public static void main (String [] args)
{
  int size ;
  Scanner sc = new
  Scanner (System.in);
  System.out.println ("Enter the number
          Elements of Array");
  size = sc.nextint ();
  n = new int [size];
  System.out.println ("Enter The Elemen
    nts of Array");
  for (int i=0; i< size ; i++)
  {
    n[i] = sc.nextint ();
  }
  for (int i=0; i< size ; i++)
  {
    if (n[i] > 0)
    c_pos++;
    elseif (n[i] < 0)
     c_neg ++;
```

Page No.

Saathi

Date __/__/__

```
else
c_zer++;
}
System.out.println("Number of Positive Number in the array" + c_pos);

System.out.println("Number of Negative Number in the negative array" + c_neg);

System.out.println("Number of Zero in The Array" + c_zer);
}
}
```

OUTPUT:

Enter the no. of elements of Array
5

Enter the elements of the Array
1
-1
0
8
7

No. of +ve numbers in the Array 3
No. of -ve numbers in the Array 1
No. of Zero's in the Array 0

Saathi

Date __/__/____

Program to calculate bill amount.

```
import java.io.*;
import java.util.*;
Public class extra3
{
Private Static double[] r_item;
private Static int[] quan;
Private Static int item;
Public Static Void read()
{
Scanner sc = new
Scanner (System.in);
System.out.println ("Enter the number
of item");
item = sc.nextint();
r_item = new double [item];
Quan = new int[item];
System.out.Println ("Enter the rate per
item of "+item+"items");
for (int i=0; i<item; i++)
{
System.out.Println("Enter the Per
item cost of item: "+(i+1));
r_item[i] = sc.next Double();
}
System.out.println ("Enter the
Number of item purchased");
for (int i=0; i<item; i++)
{
System.out.Println ("Enter The quan
tity of item: "+(i+1)+"purchased");
Quan [i] = sc.nextint();
}
}
```

Saathi

Date __/__/__

```
Public static double calc()
{
  read();
  double bill=0;
  double disc;
 for (int i=0; i< item; i++)
{
  System.out.println(quan[i]);
    bill += r_item[i]* quan[i];

}  System.out.Println("Total Bill without
      Discount is"+bill);
    if (bill>=10000)
    {  disc = ((5*bill)/(100));
   System.out.println("Discount Given is
          +disc);
        bill = bill-disc;
        return bill;

}  if (bill>=7500 && bill<10,000)
{  disc ((3*bill)/(100));
 System.out.Println("Discount given
    is "+disc);
        bill = bill-disc;
        return bill;
}
   if (bill>=5000 && bill<7500)
{   disc = ((2*bill)/(100));
 System.out.Println("Discount
      given is"+disc);
        bill=bill-disc;
```

Page No.

```
return bill;
}
Public static void main(String[] args)
{
    double bill = cal();
    System.out.println("Final Bill Amount
        After Discount is "+bill);
}
}
```

OUTPUT:

```
Enter the no. of items 5
Enter the rate/item of the 5 items
Enter the per item cost of item : 1
100
Enter the per item cost of item : 2
200
Enter " " " " " " : 3
200
Enter " " " " " " : 4
150
Enter " " " " " " : 5
300
Enter the Number of item purchased
Enter the Quantity of item : 1 Purchased
10
Enter the quantity of item : 2 Purchased
10
Enter the Quantity of item : 3 Purchased
10
Enter the Quantity of item : 4 purchased
10
```

Date __/__/__

Enter the Quantity of item : 5 purchase
10
10
10
10
10
10
Total Bill without Discount is 9500.0
Discount given is 285.0
Final Bill Amount After Discount is 9215.

program to create two Arrays B, C which each consists of odd numbers and even numbers from a single Array A. Display the max, min, Sum, Average of the Array c.

```
import java.util.*;
import java.io.*;
Public class extra 4
{
  Private Static int[] a;
  Private Static int[] b;
  Private Static int[] c;
  Private Static int n;
  Public Static void read()
  {
     Scanner sc = new
     Scanner (System.in);
     system.out.println("Enter the
number of elements in an array");
        n = sc.nextint();
```

Page No.

Date ___/___/___

```
a=new int [n];
System.out.Println("Enter the elements of
        array:");
 for (int i=0; i<n; i++)
{
   a[i] = sc.nextint();

}
} Public Static int count_even ()
{
  int count=0;
 for(int i=0; i<n; i++)
 {
   if(a[i]%2==0)
 {
    Count ++;

 }
}return count;
}
 Public Static int count_odd()
{
  int count=0;
 for(int i=0; i<n; i++)
{
  if (a[i]%2!=0)
 {
    count++;

 }
}
 return count;
}
 Public static int [] diff()
{
```

Page No.

Date ___/___/___

```
int K1 = 0;
int K2 = 0;
read();
int c1 = count_even();
int c2 = count_odd();
b = new int [c2];
c = new int [c1];
System.out.Println(c1);
System.out.Println(c2);
for(int i=0; i<n; i++)
{
    if ((a[i]%2) == 0)
    {
        c[K1] = a[i];
        K1 ++;
    }
    if(a[i]%2 != 0)
    {
        b[K2] = a[i];
        K2 ++;
    }
}
System.out.Println("contents of Array
with All odd numbers is");
for(int i=0; i<b.length; i++)
{
    if(b[i] != 0)
    System.out.Println(b[i]);
    else
    break;
}
System.out.Println("counterlts of
Array with All Even numbers is");
for (int i=0; i<c.length; i++)
```

Page No.

Saathi

Date __/__/____

```
{
 if (c[i]!=0)
System.out.println(c[i]);
  else
 break;
}
 return c;
}
Public Static void calc()
 {
  int[] array = diff();
   double sum=0;
   double Average;
   int max = array[0];
   int min = array[0];
for(int i=0; i<array.length; i++)
  {
    if (array[i] > max)
    {
     max=array[i];
    }
    if (array[i]<min)
    {
     min = array[i];
    }
    sum += array[i];
  }
 average = (((sum))/(array.length));
  System.out.println("*** Displaying
     the contents of Array with even
numbers ***");
  System.out.println("sum of All Numbers
of  An Array is"+ sum);
  System.out.println(" Average of"
```

Page No.

Date __/__/__

```
+" " + array.length + "numbers is" +
    average);
System.out.println("maximum Element
    in the array is " + max);
System.out.println(" minimum Element
    in the array is " + min);
}
Public static void main (String[]
    args)
{
    Calc();
}
```

OUTPUT:

```
Enter the number of elements in
an array
5
Enter the elements of array
1
2
3
4
5
Contents of Array with All odd
numbers is
1
3
5
Contents of Array with All Even
Numbers is
2
4
*** Displaying the contents of Array
with Even numbers" ***)
```

Date ___/___/___

Saathi

Sum of All Numbers of An Array is 6.0
Average of two numbers is. 3.0
maximum Element in the array is 4
minimum Element in the array is 2