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LAB 1 Extra Problem 1

1) Accept an array of size n from the user. Find the sum of even indices (0, 2, 4 - - -) and sum of odd indices (1, 3, 5 - - -) and print the same.

```
import java.io.*;
import java.util.*;
public class EvenOdd
{
 public static void findsum(int sum[], int n)
 {
 int evensum=0;
 int oddsum=0;
 for(int i=0;i<n;i++)
 {
 if(i%2==0)
 {
 evensum=evensum+sum[i];
 }
 else
 {
 oddsum = oddsum +sum[i];
 }
 }
System.out.println("sum of the values at all even indices is:"+evensum);
System.out.println("sum of the values at all odd indices is:" +oddsum);
 }
public static void main(String[] args)
 {
```

```
Scanner sc=new Scanner(System.in);
System.out.println("Please enter the number of terms:");
int n=sc.nextInt();
int sum[]=new int[n];
for(int i=0;i<n;i++)
  {
System.out.println("Please enter the "+n+(i+1)+
                   "term:");
sum[i]=sc.nextInt();
}
findsum(sum,n);
}
}
```

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CAB1 Extra Program 2

2) Accept an array of n integers. Find number of positive numbers, negative numbers and zeros.

```
import java.io.*;
import java.util.*;
public class count_pos_neg_zero
{
public static void count(int cnt[], int n)
{
int cntz=0;
int cntn=0;
int cntp=0;
for(int i=0;i<n;i++)
 {
 if(cnt[i]==0)
 {
  cntz++;
 }
else if(cnt[i]<0)
{
cntn++;
 }
else if(cnt[i]>0)
{
cntp++;
}
}
System.out.println("Count of zeroes is:"+cntz);
System.out.println("Count of negative numbers is:"+cntn);
```

```
System.out.println("Count of positive numbers is:"+ cntp);
}
public static void main (String [] args)
{
Scanner sc=new Scanner(System.in);
System.out.println("Enter the number of terms");
int n = sc.nextInt();
int cnt[]=new int[n];
for(int i=0;i<n;i++)
  {
  System.out.println("Please enter the "+(i+1)+"term");
  cnt[i]=sc.nextInt();
}
count(cnt,n);
}
}
```

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LAB Extra Program - 3

3) Consider a supermarket Bill. Input a double array holding rate per item of say n items and an int array showing the quantity purchased by customer. Calculate the total bill amount and the final bill amount after giving discount as per the following slabs:
If the total bill amount >= 10000, discount = 5%
If the total bill amount >= 7500 and < 10000, discount = 3%
If the total bill amount >= 5000, discount = 2%

Code:
```
import java.io.*;
import java.util.*;
public class SuperMarket
{
public static void main(String[] args)
{
double totalprice = 0;
double finalprice = 0;
Scanner sc = new Scanner(System.in);
System.out.println("Please enter the number of items");
int n = sc.nextInt();
double rate[] = new double[n];
int qty[] = new int[n];
for(int i=0; i<n; i++)
{
System.out.println("Please enter the rate of item "
+ (i+1) + ":");
rate[i] = sc.nextDouble();
```

```
System.out.println("Please enter the quantity of
item"+(i+1)+":");
qty[i] = sc.nextInt();
totalprice = totalprice + (rate[i]*qty[i]);
}
if(totalprice >=10000)
  {
  finalprice = totalprice - (0.05 * totalprice);
System.out.println("THE FINAL BILL AMOUNT IS:"+
                                    finalprice);
System.out.println("**********");

}
else if (totalprice >=7500 && totalprice<10000)
  {
finalprice = totalprice - (0.03 * totalprice);
System.out.println("THE FINAL BILL AMOUNT IS:"+
                                    finalprice);

}
else if (totalprice >= 5000 && totalprice<7000)
{
finalprice = totalprice - (0.02 * totalprice);
System.out.println("THE FINAL BILL AMOUNT IS:"+
                                    finalprice);

}
else
{
  finalprice = totalprice;
System.out.println("SORRY YOU ARE NOT ELIGIBLE FOR DISCOUNT");
System.out.println("THE FINAL BILL AMOUNT IS:" + finalprice);
}}}
```

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LAB Program Extra -4

4) Accept an array A of n elements, create two new arrays where the first one say B that holds all the odd number from array A and second say C holds the even numbers from Array A. Display sum, average max and min of array C.

CODE:

```
import java.io.*;
import java.util.*;
public class EvenOddTerm
{
public static void main(String[]args)
{
Scanner sc=new Scanner(System.in);
System.out.println("Please enter the number of
terms:");
int 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("Please enter the"+(i+1)+"th"
  term:");
a[i]=sc.nextInt();
}
{
int j=0;
int x=0;
```

```
int sum=0;
for(int i=0;i<len;i++)
{
if(a[i]%2==0)
{
c[j]=a[i];
j++;}
else
{
b[x]=a[j];
x++;
}}
int max=c[0];
int min=c[0];
for(int i=0;i<j;i++)
{
sum=sum+c[i];
if(c[i]>max)
{
max=c[i];
}
else if(c[i]<min)
{
min=c[i];
}
}
avg=sum/j;
System.out.println("Sum is:"+sum);
System.out.println("the average is:"+avg);
System.out.println("the max is:"+max);
System.out.println("the min is:"+min);
}}
```