1BM19CS008
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Week 3 Extra questions

1) Accept n elements in array, find sum of even, and odd indices and print.

A)
```
import java.util.Scanner;
public class evenoddsum
{
   public static void main (String args[])
  {
    int n, i;
    System.out.println("enter the length of the array:");
    Scanner sc = new Scanner (System.in);
    n = sc.nextInt();
    int arr[] = new int[n];
    System.out.println("enter the elements of array:");
for (i=0; i<n; i++)
      {
        arr[i] = sc.nextInt();
      }
  int even = 0, odd = 0;
for (i=0; i<n; i++)
    arr[i] = sc.nextInt();
  int even=0, odd=0;
for( i=0; i<n; i++)
  { if (i%2==0)
        even += arr[i];
    else
        odd += arr[i];
  }
```

```
        system.out.println("Even and odd sum: "+even+" "
                                                +odd);
    }
}
```

2) n integers in array no. of +ve, -ve & 0s.

```
import java.util.Scanner;
public class count
{
  public static void main(String args[])
  {
    int n,i;
    System.out.println("enter the length of the array");
    Scanner sc=new Scanner(System.in);
    n=sc.nextInt();
    int arr[] = new int[n];
    System.out.println("enter elements");
for(i=0; i<n; i++)
    {
        arr[i] = sc.nextInt();
    }
int pos=0, neg=0, zero=0;
for(i=0; i<n; i++)
  {  if(arr[i] ==0)
        zero++;
     else if(arr[i]>0)
        pos++;
     else if(arr[i]<0)
        neg++;
  }
```

system.out.println("the no.s ~~positive~~ nos are = "+pos");
System.out.println("the no.s negative and zeros are = "+neg" "+zero);
}
}

3) one array for rate, another for quantity, find total bill and final, discount = 5%. tot >= 10,000
3%. tot >= 7500 && < 10000
2%. tot >= 5000

4) import java.util.Scanner;
public class bill
{
public static void main(String args[])
{
int x, i;
System.out.println("enter the no.s items");
Scanner sc = new Scanner(System.in);
x = sc.nextInt()
float rate[] = new float[x];
int quant[] = new int[x];
float total[] = new float[x]; float dis=0, tot=0, fina=0;
printing rate → for(i=0; i<x; i++)
rate[i] = sc.nextFloat();
System.out.println("enter the quantity");
for(i=0; i<x; i++)
quant[i] = sc.nextInt();

```
for( i=0 ; i<x ; i++)
 {
   total [i] =quant [i] * rate[i];
    tot =tot+ total[i];
 }
 if (tot > =10000)
 {
   dis=tot * 5/100;
 else if((tot > =7500) && (tot <10000))
   dis =tot * 3/100;
 else if (tot> = 5000)
   dis =tot * 2/100;
  fina=tot-dis;
System.out.println("the total bill and final bill is"+'
                    tot +"and" + fina);
}
}
```

4) array A → n elements
array B → odd elements
array C → even
sum, avg, max, min of C.

A)
```
import java.util.Scanner;
public class oddeven
{
public static void main (string args[])
 {
int x,i, j=-1, k=-1, sum=0, avg;
System.out.println ("enter no. of items");
Scanner sc=new Scanner(System.in);
x=sc.nextInt();
 int a[ ] =new int[x];
  int b[ ] = new int[x];
  int c[ ] =new int[x];
System.out.println("enter the elements");
for (i=0 ; i< x ; i++)
 {
   a[i] = sc.nextInt();
 }
for( i=0 ; i<x ; i++)
{
  if (a[i] %2 ==0)
  {
    j++;
   b[j]=a[i];
  }
  else {k++;
        c[k] = a[i];
  }
for(i=0; i<k ; i++)
  sum = sum + c[i];
avg = sum/k;
```

```
int small = c[0];
  int big = c[0];
for(i=1 ; i<=k ; i++)
{
    if (c[i] > big)
        big = c[i];
    else if (c[i] < small)
        small = c[i];
}
System.out.println("sum = "+sum+"avg = "+avg+" biggest = "
                   + big+" small = "+small);
}
}
```