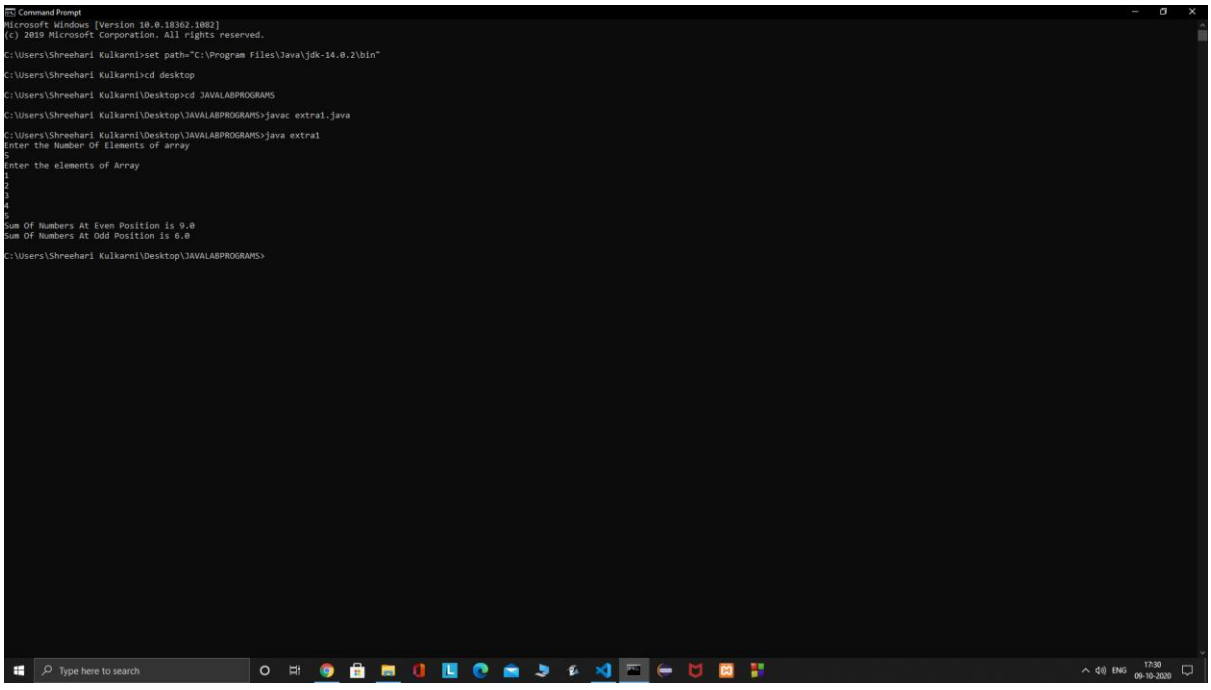
Write A program to find the Sum of elements at even indices and elements at odd indices

```
import java.lang.*;
import java.util.*;
import java.io.*;
public class extra1
{
   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)
        {
           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[] args)
    {
        calc();
    }
}
```

OUPUT:



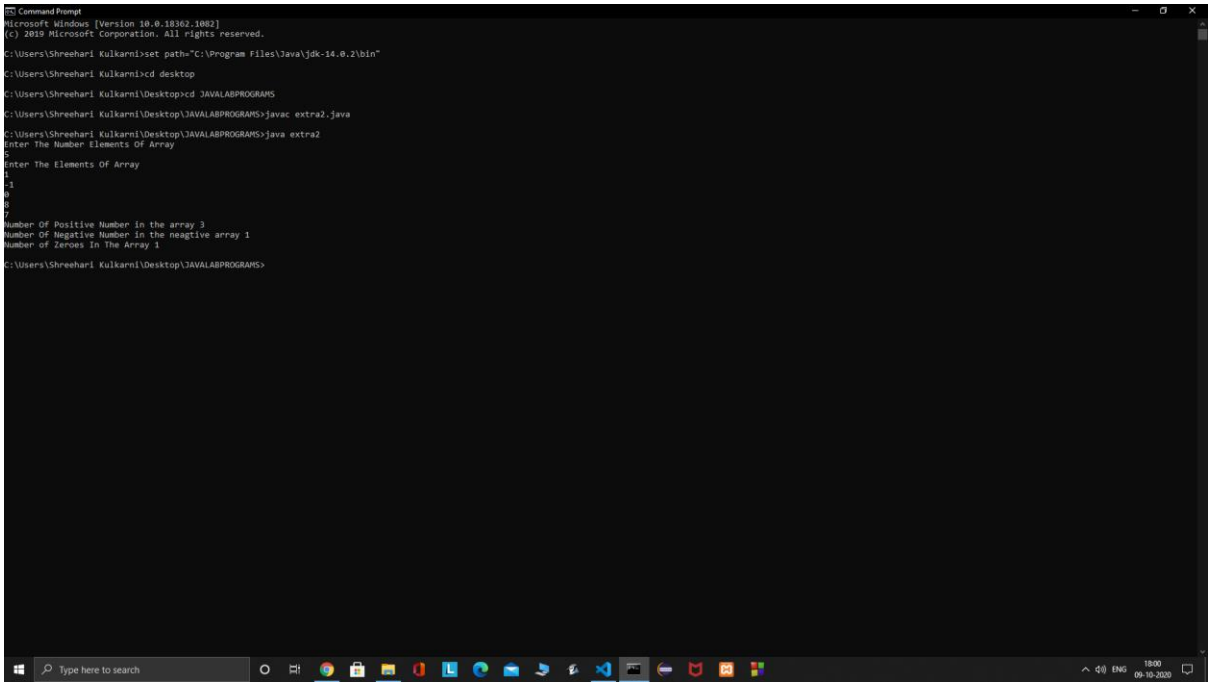
2 Write A program to count No of positive ,negative and zeroes in the array

```
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 Elements 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++;
         else if(n[i]<0)
         c_neg++;
         else
         c_zer++;
      }
      System.out.println("Number Of Positive Number in the array " + c_pos);
      System.out.println("Number Of Negative Number in the neagtive array " + c_neg);
      System.out.println("Number of Zeroes In The Array " + c_zer);
   }
```

}

OUTPUT:



3: Program to calculate the bill

```
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();
```

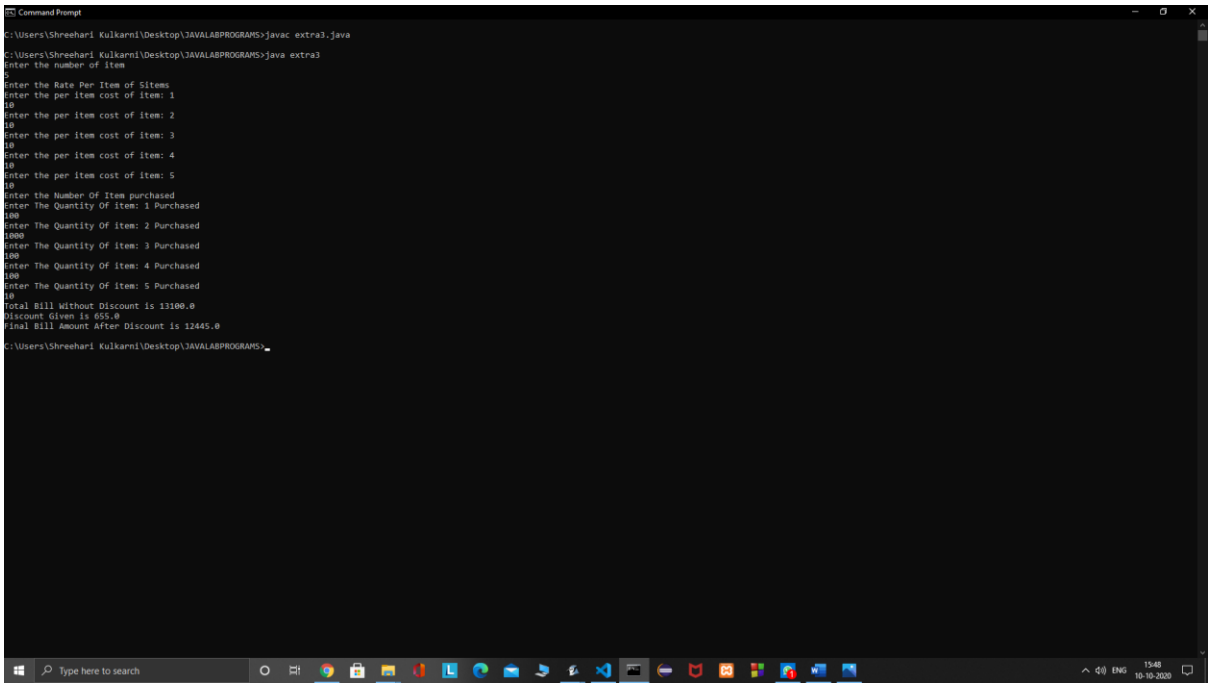
```
    r_item=new double[item];
    quan=new int[item];
    System.out.println("Enter the Rate Per Item of "+ item +"items ");
    for(int i=0;i<item;i++)
    {
       System.out.println("Enter the per item cost of item: " + (i+1));
       r_item[i]=sc.nextDouble();
    }
    System.out.println("Enter the Number Of Item purchased ");
    for(int i=0;i<item;i++)
    {
       System.out.println("Enter The Quantity Of item: " + (i+1) + " Purchased ");
       quan[i]=sc.nextInt();
    }
}
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<10000)
      {
        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;
        return bill;
      }
      System.out.println("Sorry No Discount Can Be Given");
      return bill;

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

}
```

OUTPUT:



4: PROGRAM TO SPLIT THE GIVEN ARRAY INTO TWO ARRAY B AND C B WHICH HAS ALL THE ODD NUMBERS AND C WHICH HAS ALL THE EVEN NUMBERSS,TO FIND MAX AND MIN ELEMENT OF ARRAT

CALCULATE SUM,AVAERAGE OF ALL ELEMENTS IN ARRAY C

```
import java.util.*;
import java.io.*;
public class extra4
{
   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();
```

```
    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()
{
   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("Contents Of Array With All Even Numbers is ");
    for(int i=0;i<c.length;i++)
    {
        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 " + " " + 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: