EXTRA PROGRAMS LAB.1:

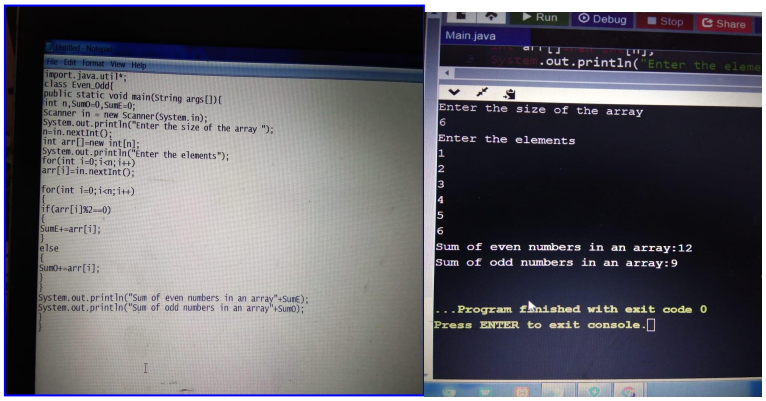
FIRST PROGRAM

Sum of odd and even:

PROGRAM:

```
import.java.util*;

class Even_Odd{

public static void main(String args[]){

int n,SumO=0,SumE=0;

Scanner in = new Scanner(System.in);

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

n=in.nextInt();

int arr[]=new int[n];

System.out.println("Enter the elements");

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

arr[i]=in.nextInt();


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

{

if(arr[i]%2==0)

{

SumE+=arr[i];

}

else

{

SumO+=arr[i];

}

}

System.out.println("Sum of even numbers in an array"+SumE);

System.out.println("Sum of odd numbers in an array"+SumO);

}
```

OUTPUT:



2ND EXTRA PROBLEM

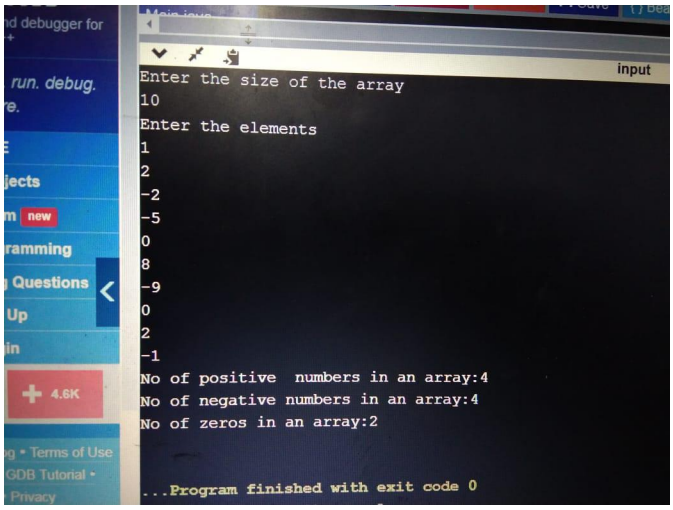
Program on no of positive,negative and zero numbers :

PROGRAM:

```
import java.util.*;

class Main{

public static void main(String args[]){

int n,count_p=0,count_n=0,count_z=0;

Scanner in=new Scanner(System.in);

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

n=in.nextInt();

int arr[]=new int[n];

System.out.println("Enter the elements");

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

{

arr[i]=in.nextInt();

}

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

{

if(arr[i]>0)

{

count_p++;

}
```

```
else if(arr[i]<0)

{

count_n++;

}

else

{

count_z++;

}

}

System.out.println("No of positive    numbers in an array:"+count_p);

System.out.println("No of negative numbers in an array:"+count_n);

System.out.println("No of zeros in an array:"+count_z);

}

}
```

OUTPUT:



EXTRA PROBLEM 4

PROGRAM ON EVEN AND ODD APPLICATION :

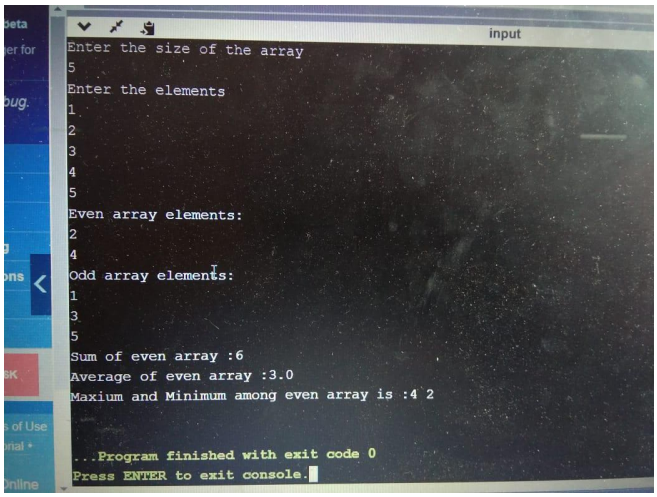
PROGRAM :

```
import java.util.*;

class Main{

public static void main(String args[]){


int n;

int j=0,k=0,sum=0;


Scanner in=new Scanner(System.in);

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

n=in.nextInt();

int A[]=new int[n];

int B[]=new int[n];

int C[]=new int[n];

System.out.println("Enter the elements");

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

{

A[i]=in.nextInt();

}


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

{

if(A[i]%2==0)

{

C[j]=A[i];

j++;


}

else
```

```
{
B[k]=A[i];
k++;

}
}
System.out.println("Even array elements:");
for(int i=0;i<j;i++)
{
System.out.println(+C[i]);
}
System.out.println("Odd array elements:");
for(int i=0;i<k;i++)
{
System.out.println(+B[i]);
}
for(int i=0;i<j ;i++)
{
sum+=C[i];
}
System.out.println("Sum of even array :"+sum);
double average = sum/j;
System.out.println("Average of even array :"+average);
int min= C[0];
int max = C[0];
for(int i=0;i<j;i++)
{
if(C[i]>=max)
{
max = C[i];
}
```

```
if(C[i]<=min)

{

min = C[i];

}

}

System.out.println("Maxium and Minimum among even array is :"+max+" "+min);



}

}
```

OUTPUT:



EXTRA PROGRAM :

PROGRAM ON SUPER MARKET BILL:

```
import java.util.*;

class Main{

public static void main(String[] args){

int n;

double totalbill=0.0,finalbill=0.0;

Scanner in=new Scanner(System.in);

System.out.println("Enter total number of items");
```

```
n=in.nextInt();
double rate[]=new double[n];
int quat[]=new int[n];
System.out.println("Enter both rate and quantity");

for(int i=0;i<n;i++)
{
rate[i]=in.nextDouble();
quat[i]=in.nextInt();
}

for(int i=0;i<n;i++)
{
totalbill+=(rate[i]*quat[i]);
}
System.out.println("Totalbill after counting is "+totalbill);

if(totalbill>=10000)
{
finalbill=(totalbill-(totalbill*0.05));
System.out.println("Finalbill after discount :"+finalbill);
}
else if(totalbill>=7500)
{
finalbill=(totalbill-(totalbill*0.03));
System.out.println("Finalbill after discount :"+finalbill);
}
else if(totalbill>=5000)
{
finalbill=(totalbill-(totalbill*0.02));
System.out.println("Finalbill after discount :"+finalbill);
```

```
}

else

{

System.out.println("Finalbill after discount :"+totalbill);

}

}

}
```

OUTPUT: