

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];

            }

        }

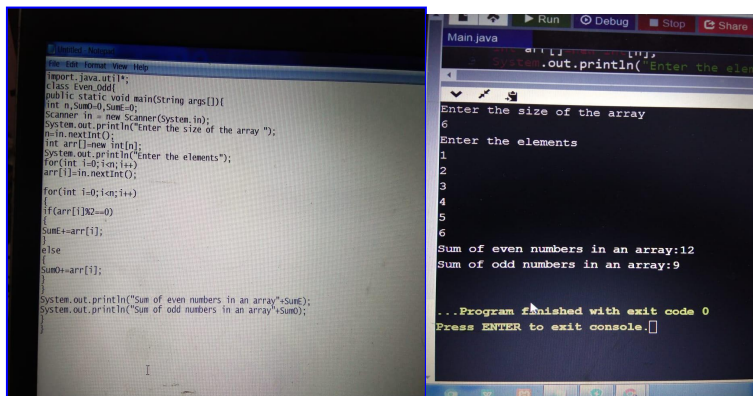
        System.out.println("Sum of even numbers in an array"+SumE);

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

    }

}
```

OUTPUT:



```
import java.util.*;
class Even_Odd{
    public static void main(String args[]){
        int n,sum=0,sumo=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)
                sum+=arr[i];
            else
                sumo+=arr[i];
        }
        System.out.println("Sum of even numbers in an array"+sum);
        System.out.println("Sum of odd numbers in an array"+sumo);
    }
}
```

```
Main.java
arr[i]
.out.println("Enter the elem

Enter the size of the array
6
Enter the elements
1
2
3
4
5
6
Sum of even numbers in an array:12
Sum of odd numbers in an array:9

...Program finished with exit code 0
Press ENTER to exit console.
```

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);

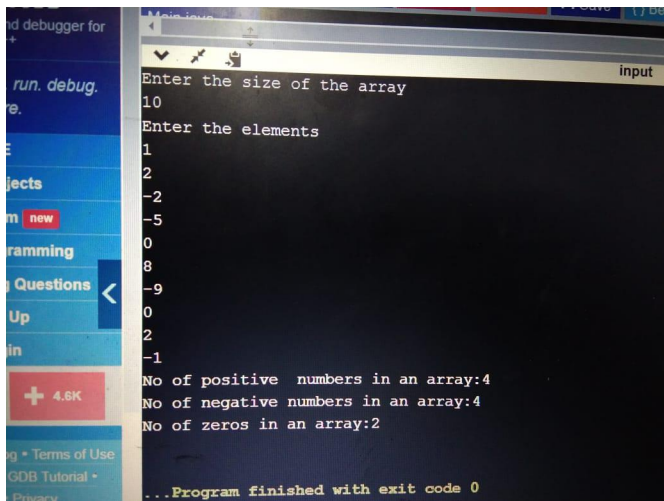
System.out.println("No of zeros in an array:"+count_z);

}

}

```

OUTPUT:



The screenshot shows a Java IDE with a dark theme. On the left, there is a sidebar with various icons and a 'run' button. The main window displays the output of a Java program. The program prompts the user to 'Enter the size of the array' (10) and 'Enter the elements'. The elements entered are 1, 2, -2, -5, 0, 8, -9, 0, 2, and -1. The program then outputs the counts: 'No of positive numbers in an array:4', 'No of negative numbers in an array:4', and 'No of zeros in an array:2'. The program ends with the message '...Program finished with exit code 0'.

```

Enter the size of the array
10
Enter the elements
1
2
-2
-5
0
8
-9
0
2
-1
No of positive  numbers in an array:4
No of negative numbers in an array:4
No of zeros in an array:2
...Program finished with exit code 0

```

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:

```

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input
Enter the size of the array
5
Enter the elements
1
2
3
4
5
Even array elements:
2
4
Odd array elements:
1
3
5
Sum of even array :6
Average of even array :3.0
Maxium and Minimum among even array is :4 2
...Program finished with exit code 0
Press ENTER to exit console.

```

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:

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```

26 {
    ...
}

Enter total number of items
2
Enter both rate and quantity
33 6
2000 1
Totalbill after counting is 2138.0
Finalbill after discount :2138.0

...Program finished with exit code 0
Press ENTER to exit console.
  
```