

Practice programs

- Accept an array of size n from the user.
Find the sum of even indices and sum of odd indices and print the same.

```
import java.util.*;  
class SumEvenOdd  
{  
    public static void main (String [] args)  
    {  
        Scanner s1 = new Scanner (System.in);  
        int a[]; int Even_Sum=0, Odd_Sum=0;  
        System.out.print ("Enter size of the array");  
        int n = s1.nextInt();  
        a = new int [n];  
        for (int i=0; i<n; i++)  
        {  
            System.out.print ("Enter a [" + i + "] ");  
            a[i] = s1.nextInt();  
        }  
        System.out.println ("Array a :");  
        for (int i=0; i<n; i++)  
        {  
            System.out.println (a[i]);  
        }  
        for (int i=0; i<a.length; i++)  
        {  
            if (a[i] % 2 == 0)  
            {  
                Odd_Sum = Odd_Sum + a[i]  
            }  
            else  
            {  
                Even_Sum = Even_Sum + a[i]  
            }  
        }  
    }  
}
```

Q9

printff("System.out.println("The sum of odd numbers in the array = " + oddSum");
System.out.println("The sum of even numbers in the array = " + evenSum");

2. Accept an array of n integers. Find the number of positive numbers, negative numbers and zeroes.

```
import java.util.*;  
class PosNegZero {
```

```
public static void main (String [] args) {
```

Scanner A1 = new Scanner (System.in);
int a1[] = new int [n];
System.out.println ("Enter n of array");
int n = A1.nextInt();

```
a1 = new int [n];  
for (int i=0; i<n; i++) {
```

System.out.print ("Enter a[" + i + "]");
a1[i] = A1.nextInt();

```
System.out.println ("Array a");  
for (int i=0; i<n; i++) {
```

System.out.println (a1[i]);

```
for (int i=0; i<a1.length; i++) {
```

of odd numbers
of even
sum");

Find the
actual no.

[] Aug)

is);
zeros
ways");

]);

if ($a[i] > 0$) {
 positive++; }
else
 if ($a[i] < 0$)
 negative++;
 else
 zeroes++;
System.out.println("No. of positive
numbers : " + positive + " No. of negative no."
+ negative + " No. of zeroes " + zeroes); }

8. Consider a Super market bill.

```
class supermarket
{
    public static void main (String args[])
    {
        Scanner sc = new Scanner (System.in);
        int r[], q[], n, total amount, final amount
        System.out.println ("Enter the number of items");
        n = sc.nextInt ();
        r = new int [n];
        q = new int [n];
        System.out.println ("Enter Rate and quantity
            of each item ");
        for (int i=0; i<n; i++)
        {
```

System.out.println ("Rate of item "+i+":");

r[i] = sc.nextInt();

System.out.println ("Quantity item "+i+":");

q[i] = sc.nextInt();

totalamount = totalamount + (r[i]*q[i]);

if (totalamount >= 10000)

finalamount = totalamount - totalamount * 0.5;

System.out.println ("Final amt = "+finalamount);

else if (totalamount >= 7500 && totalamount < 10000)

finalamount = totalamount - totalamount * 0.3;

System.out.println ("Final amount = "+finalamount);

else if (totalamount >= 5000)

finalamount = totalamount * (1 - 0.02);

System.out.println ("Final amount = "+finalamount);

else

System.out.println ("No discount");

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

```
import java.util.*;  
class array  
{
```

```
    public static void main(String arg[])
```

```
        Scanner s = new Scanner(System.in);
```

```
        int A[], B[], C[];
```

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

```
        int n = s.nextInt();
```

```
        A = new int[n];
```

```
        B = new int[n];
```

```
        C = new int[n];
```

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

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

```
            System.out.println("Enter .at[" + i + "]");
```

```
            A[i] = s.nextInt();
```

```
        }
```

```
        System.out.println("Array a: ");
```

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

```
            System.out.println(A[i]);
```

```
        for (int i=0; i<A.length; i++)
```

```
            if (A[i] % 2 != 0).
```

```
                {
```

```
                    B[i] = A[i];
```

```
                }
```

```
            else
```

```
                {
```

```
                    C[i] = A[i];
```

```
                }
```

for (int i=0; i < c.length; i++)

{ int sum=0;

sum = sum + c[i]

System.out.println("Sum of array c: " + sum)

for (int i=0; i < c.length; i++)

{

System.out.println("Average = " + sum/c.length)

int Max = c[0]; int Min = c[0]

int Max = c[0]; Min = c[0]

if (c[i] > Max)

{ Max = c[i]; }

if (c[i] < Min)

{ Min = c[i]; }

System.out.println("Max num: " + Max);

for (int i=1; i < c.length; i++)

{

if (c[i] < Min)

{

Min = c[i];

}

}

System.out.println("Min num: " + Min);

3.