

29/09/2020

Extra programs: (week - 3)

1)

```
import java.util.Scanner;
import java.util.Arrays;

public class Main
{
    public static void main (String[] args)
    {
        int sum = 0, sumO = 0;
        Scanner scan = new Scanner(System.in);

        System.out.println("Enter the length of the array: ");
        int n = scan.nextInt();

        System.out.println("Enter the elements of the array: ");
        int[] arr = new int[n];

        for (int i = 0; i < n; i++)
        {
            arr[i] = scan.nextInt();
        }

        System.out.println("\n\n Sum of odd indices: |t");
        for (int i = 0; i < n; i += 2)
        {
            sumO = sumO + arr[i];
            System.out.print(sumO + "|t");
        }
    }
}
```

1.

Scanned with CamScanner

2)

```
import java.util. Arrays;  
import java.util. Scanner;
```

```
public class Main
```

```
{
```

```
    public static void main (strings args [])
```

```
    {
```

```
        int pn = 0, nn = 0, z = 0;
```

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

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

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

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

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

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

```
        {
```

```
            an[i] = scan.nextInt();
```

```
        }
```

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

```
        {
```

```
            if (an[i] > 0)
```

```
            {
```

```
                pn++;
```

```
            }
```

```

else if (arr[i] == 0)
{
    z++;
}
else
{
    nn++;
}
}

```

```

system.out.println("Number of zeroes in the array are: " + z);

```

```

system.out.println("Number of positive numbers in the array are: " + pn);

```

```

system.out.println("Number of negative numbers in the array are: " + nn);

```

```

}

```



```

3)
import java.util.Scanner;

public class Main
{
    public static void main (Strings [] args)
    {
        double rpi=0, totalb=0, dis=0, dlsa=0;
        System.out.println("Enter the total items bought: ");
        Scanner scan = new Scanner(System.in);
        int n = scan.nextInt();
        int quantity [] = new int [n];
        double rate [] = new double [n];

        for (int i=0; i<n; i++)
        {
            System.out.println("Enter the rate of " + (i+1) + " item");
            rate[i] = scan.nextDouble();
            System.out.println("Enter the quantity of " + (i+1) + " item");
            quantity[i] = scan.nextInt();
            rpi = (double) rate[i] * quantity[i];
            totalb = totalb + rpi;
        }
    }
}

```



```
System.out.println("Total Bill = "+totalb);
```

```
if (totalb >= 10000)
```

```
{
```

```
    dis = (totalb) * (5.0) / 100;
```

```
    disa = (totalb) - dis;
```

```
}
```

```
if (totalb >= 7500)
```

```
{
```

```
    dis = (totalb) * (3.0) / 100;
```

```
    disa = (totalb) - dis;
```

```
}
```

```
if (totalb >= 5000)
```

```
{
```

```
    dis = (totalb) * (2.0) / 100;
```

```
    disa = (totalb) - dis;
```

```
}
```

```
System.out.println("Discounted Bill = "+disa);
```

```
}
```

```
}
```


4)

```
import java.util.Scanner;  
import java.util.Arrays;
```

```
public Main
```

```
{
```

```
    public static void main(Strings[] args)
```

```
    {
```

```
        int n, j=0, k=0, sum=0, num=0, max=0; min
```

```
        int min = 1000;
```

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

```
        System.out.println("Enter no. of elements: ");
```

```
        n = scan.nextInt();
```

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

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

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

```
        System.out.println("Enter all elements: ");
```

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

```
        {
```

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

```
        }
```

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

```
        {
```

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

```

{
    B[j] = A[i];
    j++;

```

```

}
else.

```

```

{
    C[k] = A[i];
    k++;
}

```

```

}

```

```

System.out.println("odd array : " + Arrays.toStrings
(B));

```

```

System.out.println("Even array : " + Arrays.toStrings(C));

```

```

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

```

```

{

```

```

    sum = sum + C[i];

```

```

    if (C[i] > max)

```

```

    {

```

```

        max = C[i];

```

```

    if (C[i] < min)

```

```

        min = C[i];

```

```

    }

```

```

System.out.println("Sum of array C is " + sum);

```

```

System.out.println("Average of array C is " + (sum/k));

```



```
System.out.println("Maximum element of array C is " + max);
```

```
System.out.println("Minimum element of array C is " + min);
```

```
}
```

```
}
```