1.To find number of days ,years and months

import java.util.Scanner;

public class year{

public static void main(String[] args){

Scanner input=new Scanner(System.in);

int num=input.nextInt();

int years=num/365;

System.out.println(years);

int weeks=(num%365)/7;

System.out.println(weeks);

int days=(num%365)%7;

System.out.println(days);

}

}

Sample input

Enter an number 789

Sample output

Years =2

Months=8

Days=3

2.To find aggregration of Students

import java.util.Scanner;

public class agg{

public static void main(String[] args){

Scanner input=new Scanner(System.in);

int a1=input.nextInt();

int a2=input.nextInt();

int a3=input.nextInt();

int a4=input.nextInt();

int total=(a1+a2+a3+a4);

System.out.println("total"+total);

float agg=total/4f;

System.out.println("aggregate"+agg);

if(agg>=75){

    System.out.println("Distinction");

}else if(agg>=60){

    System.out.println("First division");

}else if(agg>=50){

    System.out.println("Second division");

}else if(agg>=40){

    System.out.println("Third division");

}else{

    System.out.println("Fail");

}

}

}

56

45

67

43

Total 211

Aggregate 52.75

Second division

3.To find unique permutations

import java.util.Scanner;

public class ak

{

public static void print(int a[])

{

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

{

System.out.print(a[i]+" ");

}

System.out.println();

}

public static void swap(int a[],int i,int j)

{

int temp=a[i];

a[i]=a[j];

a[j]=temp;

}

public static void per(int a[],int t)

{

if(t==a.length)

{

print(a);

return;

}

for(int i=t;i<a.length;i++)

{

swap(a,i,t);

per(a,t+1);

swap(a,i,t);

}

}

public static void main(String[] args)

{

Scanner input=new Scanner(System.in);

int a[]={1,4,3};

per(a,0);

}

}

Sample output

1 4 3

1 3 4

4 1 3

4 3 1

3 4 1

3 1 4

4.Composite between two numbers

import java.util.Scanner;

public class a{

public static void main(String[] args){

Scanner input=new Scanner(System.in);

int num1=input.nextInt();

int num2=input.nextInt();

for(int i=num1+1;i<=num2;i++){

int c=0;

for(int j=1;j<=num2;j++){

if(i%j==0){

c++;

}

}

if(c>2){

System.out.println(i);

}

}

}

}

Sample input-12

Sample output-14,15,16,18

5.Convert to Decimal to binary and octal

import java.util.Scanner;

public class a{

public static void main(String[] args){

Scanner input=new Scanner(System.in);

int dec=input.nextInt();

String binary=Integer.toBinaryString(dec);

String octal=Integer.toOctalString(dec);

System.out.println(“binary”+binary);

System.out.println(“octal”+octal);

}

}

Sample input-15

Sample output

Binary number-1111

Octal number-17

6.Convert binary to decimal and octal

import java.util.Scanner;

public class a{

public static void main(String[] args){

Scanner input=new Scanner(System.in);

String binary=input.nextLine();

int decimal=Integer.parseInt(binary,2);

String octal=Integer.toOctalString(decimal);

System.out.println(decimal);

System.out.println(octal);

}

}

Sample input-1111

Sample output

Decimal -15

Octal -17

7.Mth and Nth numbers and their difference

import java.util.Arrays;

import java.util.Scanner;

public class a{

public static void main(String[] args){

int[] array={1,2,4,3,5,5,7,43,22};

Arrays.sort(array);

int len=array.length;

int m=1;

int n=3;

int a=array[len-1];

int b=array[n];

System.out.println("maximum number"+a);

System.out.println("minimum number"+b);

int sum=a+b;

int dif=a-b;

System.out.println("sum"+sum);

System.out.println("Difference"+dif);

}

}

maximum number43

minimum number4

sum47

Difference39

10.Fibonnaci series

import java.util.Scanner;

public class s{

public static void main(String[] args){

Scanner input=new Scanner(System.in);

int num=input.nextInt();

int sum=1,a=0,b=1;

for(int i=3;i<=num;i++){

int temp=a+b;

sum=sum+temp;

a=b;

b=temp;

}

System.out.println(sum);

}

}