**1.Factorial no**

import java.util.\*;

public class Main

{

public static void main(String[]args)

{

int n,f1=11,i;

Scanner sc=new Scanner(System.in);

System.out.println("enter no");

n=sc.nextInt();

i=n;

while(i>1)

{

f1=f1\*i;

i--;

}

{

System.out.println("f1");

}

}

}

**2.Prime no**

import java.util.\*;

public class Main

{

public static void main(String[] args)

{

int i, n, f1 = 0;

Scanner sc = new Scanner(System.in);

System.out.println("Enter a number");

n = sc.nextInt();

i = 2;

while (i <= n / 2)

{

if (n % i == 0)

{

f1 = 1;

break;

}

i++;

}

if (f1 == 0)

{

System.out.println(n+ " is Prime number");

} else

{

System.out.println( n+ " is Not a Prime number");

}

}

}

**3.Perfect no**

import java.util.\*;

public class Main

{

public static void main(String[] args)

{

int i, n, sum = 0;

Scanner sc = new Scanner(System.in);

System.out.println("Enter a number:");

n = sc.nextInt();

sc.close();

i = 1;

while (i <= n / 2)

{

if (n % i == 0)

{

sum = sum + i;

}

i++;

}

if (sum == n)

{

System.out.println(n + " is a perfect number");

} else

{

System.out.println(n + " is not a perfect number");

}

}

}

**4.Pronic no**

import java.util.\*;

public class Main

{

public static void main(String[] args)

{

int n,i=1,flag=0;

Scanner sc= new Scanner(System.in);

System.out.println("Enter a number:");

n=sc.nextInt();

while(i<+n/2)

{

if(n==(i\*(i+1)))

{

flag=1;

break;

}

i++;

}

if(flag==1)

System.out.println("Pronic number");

else

System.out.println(" Not Pronic number");

}

}

**5.Multiplication Table**

import java.util.\*;

public class Main

{

public static void main (String[]args)

{

int n,i=1,f1=1;

Scanner sc=new Scanner(System.in);

System.out.println("enter no");

n=sc.nextInt();

while(i<=10)

{

f1=n\*i;

System.out.println(""+f1);

i++;

}

}

}

**6.**

**7.Fibonacci Series**

import java.util.\*;

public class Main

{

public static void main(String[] args)

{

int n, f1 = 0, f2 = 1, f3;

Scanner sc = new Scanner(System.in);

System.out.println("Enter a number:");

n = sc.nextInt();

if (n <= 0) {

System.out.print("Invalid input");

}

else if (n == 1)

{

System.out.print(f1);

}

else {

System.out.print(f1 + " " + f2);

int count = 2;

while (count < n)

{

f3 = f1 + f2;

System.out.print(" " + f3);

f1 = f2;

f2 = f3;

count++;

}

}

}

}

**8.Sum of digit**

import java.util.\*;

public class Main

{

public static void main(String[] args)

{

int n,n1,sum=0;

Scanner sc=new Scanner(System.in);

System.out.println("Enter a number:");

n=sc.nextInt();

while(n>0)

{

n1=n%10;

n=n/10;

sum=sum+n1;

}

System.out.println("Sum of digit = "+sum);

}

}

**9.Reverse no**

import java.util.\*;

public class Main

{

public static void main(String[] args)

{

int n,n1,sum=0;

Scanner sc=new Scanner(System.in);

System.out.println("Enter a number:");

n=sc.nextInt();

while(n>0)

{

n1=n%10;

n=n/10;

sum=(sum\*10)+n1;

}

System.out.println("Sum of reverse no = "+sum);

}

}

**10.Palindrome no**

import java.util.\*;

public class Main

{

public static void main(String[] args) {

int n, n1, sum = 0, p;

Scanner sc = new Scanner(System.in);

System.out.println("Enter a number:");

n = sc.nextInt();

p = n;

while (n > 0)

{

n1 = n % 10;

sum = (sum \* 10) + n1;

n = n / 10;

}

if (sum == p)

{

System.out.println(p + " is a palindrome number.");

} else

{

System.out.println(p + " is not a palindrome number.");

}

}

}

**11.Armstrong no**

import java.util.\*;

public class Main

{

public static void main(String[] args) {

int n, n1, sum = 0, p;

Scanner sc = new Scanner(System.in);

System.out.println("Enter a number:");

n = sc.nextInt();

p = n;

while (n > 0)

{

n1 = n % 10;

sum =sum+ (n1\*n1\*n1);

n = n / 10;

}

if (sum == p)

{

System.out.println( " is a armstrong number.");

} else

{

System.out.println(" is not a armstrong number.");

}

}

}

**12.Sum of first & last digit no**

import java.util.\*;

public class Main

{

public static void main(String[] args)

{

int n, first = 0, last=0,sum=0;

Scanner sc = new Scanner(System.in);

System.out.println("Enter a number:");

n = sc.nextInt();

while (first>= 10)

first=n;

last=n%10;

{

first= first/ 10;

}

sum=first+last;

{

System.out.println( " is a first number.");

}

{

System.out.println(" is not a last number.");

}

}

}

**13.Count no of digits**

import java.util.\*;

public class Main

{

public static void main(String[] args)

{

int n, count= 0;

Scanner sc = new Scanner(System.in);

System.out.println("Enter a number:");

n = sc.nextInt();

count=sc.nextInt();

while (n> count)

{

count++;

n=n/10;

}

System.out.println("no of digit"+count);

}

}

**14.Count total not even digit,odd digit & zero digit**

import java.util.\*;

public class Main

{

public static void main(String[] args) {

int n, n1, sum = 0, cntZ = 0, cntE = 0, cntO = 0;

Scanner sc = new Scanner(System.in);

System.out.println("Enter a number:");

n = sc.nextInt();

while (n > 0)

{

n1 = n % 10;

n = n / 10;

if (n1 == 0)

{

cntZ++;

}

else if (n1 % 2 == 0)

{

cntE++;

} else

{

cntO++;

}

}

System.out.println("Count of zero digits: " + cntZ);

System.out.println("Count of even digits: " + cntE);

System.out.println("Count of odd digits: " + cntO);

}

}

**15.Count total no of prime digit in given no**

import java.util.\*;

public class Main

{

public static void main(String[] args)

{

int n, n1, cnt = 0;

Scanner sc = new Scanner(System.in);

System.out.println("Enter a number:");

n = sc.nextInt();

while (n > 0)

{

n1 = n % 10;

n = n / 10;

if (n1 == 2 || n1 == 3 || n1 == 5 || n1 == 7)

{

cnt++;

}

}

System.out.println("Count of prime digits: " + cnt);

}

}

**16.Krishnamurthy or strong no or not**

import java.util.\*;

public class Main

{

public static void main(String[] args)

{

int i, sum = 0, n, n1, f1, p;

Scanner sc = new Scanner(System.in);

System.out.println("Enter a number:");

n = sc.nextInt();

p = n;

while (n > 0)

{

n1 = n % 10;

n = n / 10;

f1 = 1;

for (i = n1; i > 1; i--)

{

f1 = f1 \* i;

}

sum = sum + f1;

}

if (p == sum)

{

System.out.println("Krishnamurthy number");

} else

{

System.out.println("Not Krishnamurthy number");

}

}

}

**17.Disarium no**

import java.util.\*;

public class Main

{

public static void main(String[] args)

{

int n, n1, sum = 0, temp, digits = 0;

Scanner sc = new Scanner(System.in);

System.out.println("Enter a number:");

n = sc.nextInt();

temp = n;

int num = n;

while (num > 0)

{

digits++;

num = num / 10;

}

num = n;

while (num > 0)

{

n1 = num % 10;

num = num / 10;

int f1 = 1;

for (int i = 1; i <= digits; i++)

{

f1 = f1 \* n1;

}

digits--;

sum = sum + f1;

}

if (sum == temp)

System.out.println("Dissarium number");

else

System.out.println("Not a Dissarium number");

}

}

**18.123**

import java.util.\*;

public class Main

{

public static void main(String[] args)

{

int n,n1,sum=0;

Scanner sc=new Scanner(System.in);

System.out.println("Enter a number:");

n=sc.nextInt();

while(n>0)

{

n1=n%10;

n=n/10;

sum=(sum\*10)+n1;

}

n=sum;

while(n>0)

{

n1=n%10;

n=n/10;

switch(n1)

{

case 0:System.out.print("Zero ");

break;

case 1:System.out.print("One ");

break;

case 2:System.out.print("Two ");

break;

case 3:System.out.print("Three ");

break;

case 4:System.out.print("Four ");

break;

case 5:System.out.print("Five ");

break;

case 6:System.out.print("Six ");

break;

case 7:System.out.print("Seven ");

break;

case 8:System.out.print("Eight ");

break;

case 9:System.out.print("Nine ");

break;

default: System.out.print("Invalid digit");

}

}

}

}

**19.Twins prime or not**

import java.util.Scanner;

public class Main

{

public static void main(String[] args)

{

int a, b, div = 0, div1 = 0, i;

Scanner sc = new Scanner(System.in);

System.out.println("Enter value of a:");

a = sc.nextInt();

System.out.println("Enter value of b:");

b = sc.nextInt();

i = 2;

while (i <= a / 2)

{

if (a % i == 0)

{

div = 1;

break;

}

i++;

}

i = 2;

while (i <= b / 2)

{

if (b % i == 0)

{

div1 = 1;

break;

}

i++;

}

if (div == 0 && div1 == 0 && (a - b == -2))

{

System.out.println("Twins prime");

} else {

System.out.println("Not Twins prime");

}

}

}

**20.Magic no**

import java.util.\*;

public class Main

{

public static void main(String[] args) {

int n,n1,sum=0;

Scanner sc=new Scanner(System.in);

System.out.println("Enter a number");

n=sc.nextInt();

while(n>9)

{

sum=0;

while(n>0)

{

n1=n%10;

n=n/10;

sum=sum+n1;

}

n=sum;

}

if(n==1)

System.out.println("Magic number");

else

System.out.println(" Not magic number");

}

}

**21.Prime palindrome or not**

import java.util.\*;

public class Main

{

public static void main(String[] args)

{

int a, n1, original, reversed = 0;

int div = 0;

Scanner sc = new Scanner(System.in);

System.out.println("Enter a value of a:");

a = sc.nextInt();

if (a <= 1)

{

div = 1;

} else

{

for (int i = 2; i <= a / 2; i++)

{

if (a % i == 0)

{

div = 1;

break;

}

}

}

original = a;

while (a > 0)

{

n1 = a % 10;

reversed = reversed \* 10 + n1;

a = a / 10;

}

if (div == 0 && original == reversed)

{

System.out.println(original + " is a Prime Palindrome");

} else

{

System.out.println(original + " is Not a Prime Palindrome");

}

}

}

**22.xylem & phloem**

import java.util.\*;

public class Main

{

public static void main(String[] args)

{

int n,n1,num,sume=0,summ=0;

Scanner sc=new Scanner(System.in);

System.out.println("Enter a number:");

n=sc.nextInt();

num=n;

while(n>0)

{

n1=n%10;

if(n==num || n<10)

sume=sume+n1;

else

summ=summ+n1;

n=n/10;

}

if(sume==summ)

System.out.println("Xylem number");

else

System.out.println("Phloem number");

}

}

**23. upto n print all armstrong number**

import java.util.\*;

public class Main

{

public static void main(String[] args)

{

int p,n,n1,sum=0,j,range;

Scanner sc=new Scanner(System.in);

System.out.println("Enter a range:");

range=sc.nextInt();

for(j=1;j<=range;j++)

{

sum=0;

n=j;

while(n>0)

{

n1=n%10;

n=n/10;

sum=sum+(n1\*n1\*n1);

}

if(j==sum)

System.out.print(" "+j);

}

}

}

**24.upto n print all palindrome number**

import java.util.\*;

public class Main

{

public static void main(String[] args)

{

int p,n,n1,sum=0,i,range,j;

Scanner sc=new Scanner(System.in);

System.out.println("Enter a range:");

range=sc.nextInt();

for(j=1;j<=range;j++)

{

sum=0;

n=j;

while(n>0)

{

n1=n%10;

n=n/10;

sum=sum\*10+n1;

}

if(j==sum)

System.out.print(" "+j);

}

}

}

**25.upto n print all strong no**

import java.util.\*;

public class Main

{

public static void main(String[] args)

{

int p,n,n1,sum=0,j,i,range,f1;

Scanner sc=new Scanner(System.in);

System.out.println("Enter a range:");

range=sc.nextInt();

for(j=1;j<=range;j++)

{

sum=0;

n=j;

while(n>0)

{

n1=n%10;

n=n/10;

f1=1;

for(i=n1;i>1;i--)

f1=f1\*i;

sum=sum+f1;

}

if(sum==j)

System.out.print(" "+j);

}

}

}

**26.upto n print all dissarium no**

import java.util.\*;

public class Main

{

public static void main(String[] args)

{

int n,n1,num,temp,range,sum = 0,i,j;

Scanner sc = new Scanner(System.in);

System.out.println("Enter a range:");

range = sc.nextInt();

for ( j = 1; j <= range; j++)

{

n = j;

temp = n;

num = n;

sum = 0;

int digits = 0;

while (num > 0)

{

digits++;

num = num / 10;

}

num = n;

while (num > 0)

{

n1 = num % 10;

num = num / 10;

int f1 = 1;

for ( i = 1; i <= digits; i++)

{

f1 = f1 \* n1;

}

digits--;

sum = sum + f1;

}

if (sum == temp)

System.out.print(j + " ");

}

}

}

**27.upto n print all magic no**

import java.util.\*;

public class Main

{

public static void main(String[] args)

{

int n,j,sum=0,range;

Scanner sc = new Scanner(System.in);

System.out.println("Enter a range:");

range = sc.nextInt();

for ( j = 1; j <= range; j++)

{

n = j;

while (n > 9)

{

sum = 0;

while (n > 0)

{

sum += n % 10;

n /= 10;

}

n = sum;

}

if (n == 1) {

System.out.print(" "+j);

}

}

}

}

**28. upto n print all twinsprime number**

import java.util.\*;

public class Main

{

public static void main(String[] args)

{

int a, b, div, div1, i, range, j;

Scanner sc = new Scanner(System.in);

System.out.println("Enter the range:");

range = sc.nextInt();

for (j = 2; j <= range - 2; j++)

{

a = j;

b = j + 2;

div = 0;

div1 = 0;

for (i = 2; i <= a / 2; i++)

{

if (a % i == 0)

{

div = 1;

break;

}

}

for (i = 2; i <= b / 2; i++)

{

if (b % i == 0)

{

div1 = 1;

break;

}

}

if (div == 0 && div1 == 0)

{

System.out.println(a + " and " + b + " are twin prime numbers");

}

}

}

}

**29. Accept n from user & print those number which does not contain any zero**

import java.util.\*;

public class Main

{

public static void main(String[] args)

{

int n, i, num, digit, f1;

Scanner sc = new Scanner(System.in);

System.out.println("Enter a number:");

n = sc.nextInt();

System.out.println("Numbers from 1 to " + n + " that do not contain any zeros:");

for (i = 1; i <= n; i++)

{

num = i;

f1 = 0;

while (num > 0)

{

digit = num % 10;

if (digit == 0)

{

f1 = 1;

break;

}

num = num / 10;

}

if (f1 == 0)

{

System.out.print(i + " ");

}

}

}

}

**30. Accept 1 no from user display its digits in ascending order**

import java.util.\*;

public class Main

{

public static void main(String[] args)

{

int n, digit,rev;

Scanner scanner = new Scanner(System.in);

System.out.println("Enter a number:");

n = scanner.nextInt();

int[] count = new int[10];

while (n > 0)

{

digit = n % 10;

count[digit]++;

n = n / 10;

}

digit = 0;

while (digit < count.length)

{

rev = count[digit];

while (rev > 0)

{

System.out.print(digit);

rev--;

}

digit++;

}

}

}

**31Decimal to binary**

import java.util.\*;

public class Main

{

public static void main(String[] args) {

int n,n1,p=1,sum=0;

Scanner sc=new Scanner(System.in);

System.out.println("Enter a Decimal number:");

n=sc.nextInt();

while(n>0)

{

n1=n%2;

n=n/2;

sum=sum+(n1\*p);

p=p\*10;

}

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

}

}

**32.Binary to decimal**

import java.util.\*;

public class Main

{

public static void main(String[] args)

{

int n,m=1,sum=0,rem;

Scanner sc=new Scanner(System.in);

System.out.println("Enter a binary number:");

n=sc.nextInt();

while(n>0)

{

rem=n%10;

n=n/10;

sum=(sum)+(rem\*m);

m=m\*12;

}

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

}

}

**33.Decimal to octal**

import java.util.\*;

public class Main

{

public static void main(String[] args)

{

int n,n1,p=1,sum=0;

Scanner sc=new Scanner(System.in);

System.out.println("Enter a decimal number:");

n=sc.nextInt();

while(n>0)

{

n1=n%8;

n=n/8;

sum=sum+(n1\*p);

p=p\*10;

}

System.out.println("Octal number = "+sum);

}

}

**34.Octal to decimal**

import java.util.\*;

public class Main

{

public static void main(String[] args)

{

int n,n1,p=1,sum=0;

Scanner sc=new Scanner(System.in);

System.out.println("Enter Octal number:");

n=sc.nextInt();

while(n>0)

{

n1=n%10;

n=n/10;

sum=sum+(n1\*p);

p=p\*8;

}

System.out.println("Decimal number = "+sum);

}

}

**35.ip: n=1234**

**op:1\*2+2\*3+3\*4=20**

import java.util.\*;

public class Main

{

public static void main(String[] args)

{

int n, currentDigit, nextDigit, sum = 0;

Scanner scanner = new Scanner(System.in);

System.out.println("Enter a number:");

n = scanner.nextInt();

nextDigit = n % 10;

n = n /10;

while (n > 0)

{

currentDigit = n % 10;

sum = sum + currentDigit \* nextDigit;

nextDigit = currentDigit;

n = n /10;

}

System.out.println("The sum is: " + sum);

}

}