CSA0981

**1.even or odd**

**package** csa0981;

**import** java.util.\*;

**public** **class** evenorodd {

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

Scanner abc = **new** Scanner(System.***in***);

System.***out***.println("enter the number");

**int** n =abc.nextInt();

**if**(n%2==0)

{

System.***out***.println("it is even");

}

**else**

{

System.***out***.println("it is odd");

}

}

}

**2.perfect number**

**package** csa0981;

**import** java.util.\*;

**public** **class** perfect {

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

Scanner aa = **new** Scanner(System.***in***);

System.***out***.println("enter the number");

**int** n = aa.nextInt();

**int** sum=0;

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

{

**if**(n%i==0)

{

sum=sum+i;

}

}

**if**(n==sum)

{

System.***out***.println("it is perfect number");

}

**else**

{

System.***out***.println("it is not perfect number");

}

}

}

**3.reverse**

**package** csa0981;

**import** java.util.\*;

**public** **class** reverse {

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

Scanner aa = **new** Scanner(System.***in***);

System.***out***.println("Enter the string");

String reverse = aa.next();

StringBuilder ab = **new** StringBuilder("");

**int** n = reverse.length();

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

{

ab.append(reverse.charAt(n-i-1));

}

System.***out***.println(ab);

}

}

**4.palindrome**

**package** csa0981;

**import** java.util.\*;

**public** **class** palindrome {

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

Scanner aa = **new** Scanner(System.***in***);

System.***out***.println("enter the string");

String ab = aa.next();

**int** n = ab.length();

StringBuilder ac = **new** StringBuilder("");

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

{

ac.append(ab.charAt(n-i-1));

}

String ad = ac.toString();

**if**(ab.contentEquals(ad))

{

System.***out***.println("is is palindrome");

}

**else**

{

System.***out***.println("it is not palindrome");

}

}

}

**5.vote**

**package** csa0981;

**import** java.util.\*;

**public** **class** vote {

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

Scanner aa = **new** Scanner(System.***in***);

System.***out***.println("enter the age");

**int** age = aa.nextInt();

**int** one;

**if**(age>=18)

{

System.***out***.println("welcome to vote");

}

**else**

{

one=(18-age);

System.***out***.println("not to vote"+one+"years");

}

}

}

**6.valid or not**

**package** csa0981;

**import** java.util.\*;

**public** **class** validornot {

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

Scanner aa = **new** Scanner(System.***in***);

System.***out***.println("enter the string");

String ab = aa.next();

Scanner ac = **new** Scanner(System.***in***);

System.***out***.println("enter the string");

String ad = ac.next();

**if**(ab.equals(ad))

{

System.***out***.println("valid");

}

**else**

{

System.***out***.println("not valid");

}

}

}

**7.simple interest**

**package** csa0981;

**import** java.util.\*;

**public** **class** simpleinterest {

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

Scanner aa = **new** Scanner(System.***in***);

**float** P = aa.nextFloat();

**float** T = aa.nextFloat();

**float** R = aa.nextFloat();

**float** SI = (P\*T\*R)/100;

System.***out***.println("simple interest"+SI);

}

}

**8.factorial**

**package** csa0981;

**import** java.util.\*;

**public** **class** factorial {

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

Scanner aa = **new** Scanner(System.***in***);

System.***out***.println("enter the number");

**int** n = aa.nextInt();

**int** fact=1;

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

{

fact=fact\*i;

}

System.***out***.println(fact);

}

}

**9.prime**

**package** csa0981;

**import** java.util.\*;

**public** **class** prime {

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

Scanner aa = **new** Scanner(System.***in***);

System.***out***.println("enter the number");

**int** n = aa.nextInt();

**int** count=0;

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

{

**if**(n%i==0)

{

count++;

}

}

**if**(count==2)

{

System.***out***.println("prime number");

}

**else**

{

System.***out***.println("not prime number");

}

}

}

**10.factors**

**package** csa0981;

**import** java.util.\*;

**public** **class** factors{

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

Scanner aa = **new** Scanner(System.***in***);

System.***out***.println("enter the number");

**int** n = aa.nextInt();

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

{

**if**(n%i==0)

{

System.***out***.println(i);

}

}

}

}

**11.fabonnaci series**

**package** csa0981;

**import** java.util.\*;

**public** **class** fabonnaci {

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

Scanner aa = **new** Scanner(System.***in***);

System.***out***.println("enter the number");

**int** n = aa.nextInt();

**int** f=1,s=1,t=f+s;

**for**(**int** i=3;i<=n;i++)

{

t=f+s;

System.***out***.println(t);

f=s;

s=t;

}

}

}

12.composite number

**package** csa0981;

**import** java.util.\*;

**public** **class** composite {

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

Scanner aa = **new** Scanner(System.***in***);

System.***out***.println("enter the number");

**int** n = aa.nextInt();

**int** count=0;

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

{

**if**(n%i==0)

{

count++;

}

}

**if**(count>2)

{

System.***out***.println("it is composite number");

}

**else**

{

System.***out***.println("it is not composite number");

}

}

}

**13.squarecube**

**package** csa0981;

**import** java.util.\*;

**public** **class** cubesquare {

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

Scanner aa = **new** Scanner(System.***in***);

System.***out***.println("enter the number");

**int** n = aa.nextInt();

**int** a,b;

a=n\*n;

b=n\*n\*n;

System.***out***.println("the square root"+a);

System.***out***.println("the cube root"+b);

}

}

**14.lifttrianglestarpattern**

**package** csa0981;

**import** java.util.\*;

**public** **class** lifttrianglestarpattern {

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

Scanner aa = **new** Scanner(System.***in***);

System.***out***.println("enter the number");

**int** n = aa.nextInt();

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

{

**for**(**int** j=1;j<=i;j++)

{

System.***out***.print("\*");

}

System.***out***.println(" ");

}

}

}

**15.**

1

22

333

4444

**package** csa0981;

**import** java.util.\*;

**public** **class** pattern1 {

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

Scanner aa = **new** Scanner(System.***in***);

System.***out***.println("enter the number");

**int** n = aa.nextInt();

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

{

**for**(**int** j=1;j<=i;j++)

{

System.***out***.print(i);

}

System.***out***.println();

}

}

}

16.

1

12

123

1234

**package** csa0981;

**import** java.util.\*;

**public** **class** pattern1 {

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

Scanner aa = **new** Scanner(System.***in***);

System.***out***.println("enter the number");

**int** n = aa.nextInt();

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

{

**for**(**int** j=1;j<=i;j++)

{

System.***out***.print(j);

}

System.***out***.println();

}

}

}

17.

1

4 9

16 25 36

49 64 81 100

**package** csa0981;

**import** java.util.\*;

**public** **class** pattern3 {

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

Scanner aa = **new** Scanner(System.***in***);

System.***out***.println("enter the number");

**int** n = aa.nextInt();

**int** a=1;

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

{

**for**(**int** j=1;j<=i;j++)

{

System.***out***.print(a\*a+" ");

a++;

}

System.***out***.println( );

}

}

}

18.

**1**

**1 2**

**1 2 3**

**1 2**

**1**

**package** csa0981;

**import** java.util.\*;

**public** **class** pattern4 {

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

Scanner aa = **new** Scanner(System.***in***);

System.***out***.println("enter the value");

**int** n = aa.nextInt();

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

{

**for**(**int** j=1;j<=i;j++)

{

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

}

System.***out***.println();

}

**for**(**int** i=n-1;i>=1;i--)

{

**for**(**int** j=1;j<=i;j++)

{

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

}

System.***out***.println();

}

}

}

19.

1

1 1

1 1 1

1 1

1

**package** csa0981;

**import** java.util.\*;

**public** **class** pattern4 {

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

Scanner aa = **new** Scanner(System.***in***);

System.***out***.println("enter the value");

**int** n = aa.nextInt();

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

{

**for**(**int** j=1;j<=i;j++)

{

System.***out***.print(1+" ");

}

System.***out***.println();

}

**for**(**int** i=n-1;i>=1;i--)

{

**for**(**int** j=1;j<=i;j++)

{

System.***out***.print(1+" ");

}

System.***out***.println();

}

}

}

20.

%

% %

% % %

**package** csa0981;

**import** java.util.\*;

**public** **class** pattern4 {

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

Scanner aa = **new** Scanner(System.***in***);

System.***out***.println("enter the value");

**int** n = aa.nextInt();

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

{

**for**(**int** j=1;j<=i;j++)

{

System.***out***.print(1+" ");

}

System.***out***.println();

}

**for**(**int** i=n-1;i>=1;i--)

{

**for**(**int** j=1;j<=i;j++)

{

System.***out***.print(1+" ");

}

System.***out***.println();

}

}

}

21.Armstrong num

**package** test;

**import** java.util.\*;

**public** **class** armsstrong {

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

Scanner aa = **new** Scanner(System.***in***);

System.***out***.println("enter the number");

**int** n = aa.nextInt();

**int** rem,c,arm=0;

c=n;

**while**(n>0)

{

rem=n%10;

arm=(rem\*rem\*rem)+arm;

n=n/10;

}

**if**(c==arm)

{

System.***out***.println("it is armstrong number");

}

**else**

{

System.***out***.println("it is not armsstrong number");

}

}

}

**22.sum of n numbers**

**package** csa0981;

**import** java.util.\*;

**public** **class** sumofn {

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

Scanner aa = **new** Scanner(System.***in***);

System.***out***.println("enter the number");

**int** n = aa.nextInt();

**int** r,sum=0;

**while**(n!=0)

{

r=n%10;

sum=sum+r;

n=n/10;

}

System.***out***.println(sum);

}

}

**23.Multiplication table**

**package** csa0981;

**import** java.util.\*;

**public** **class** multiplicationtable {

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

Scanner aa = **new** Scanner(System.***in***);

System.***out***.println("enter the number");

**int** n = aa.nextInt();

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

{

System.***out***.println(n+"\*"+i+"="+n\*i);

}

}

}

**24.Leapyear**

**package** csa0981;

**import** java.util.\*;

**public** **class** leapyear {

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

Scanner aa = **new** Scanner(System.***in***);

System.***out***.println("enter the date/month/year");

String n = aa.next();

String[] d = n.split("/",3);

**int** x = Integer.*parseInt*(d[2]);

**if**(x%4==0)

{

System.***out***.println("it is leap year");

}

**else**

{

System.***out***.println("it is not leap year");

}

}

}

**25.yearweekdays**

**package** csa0981;

**import** java.util.\*;

**public** **class** yearsweeksdays {

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

Scanner aa = **new** Scanner(System.***in***);

System.***out***.println("enter the number");

**int** n = aa.nextInt();

**int** m,year,week,day;

year = n/365;

System.***out***.println("year"+year);

m=n%365;

week=m/7;

System.***out***.println("week"+week);

day=m%7;

System.***out***.println("day"+day);

}

}

**26.MatrixMUltiplication**

**package** csa0981;

**public** **class** matrixmultilication {

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

**int** a[][]= {{1,1,1},{2,2,2},{3,3,3}};

**int** b[][]= {{1,1,1},{2,2,2},{3,3,3}};

**int** c[][]= **new** **int**[3][3];

**for**(**int** i=0;i<3;i++)

{

**for**(**int** j=0;j<3;j++)

{

c[i][j]=0;

**for**(**int** k=0;k<3;k++)

{

c[i][j]+=a[i][k]\*b[k][j];

}

System.***out***.print(c[i][j]);

}

System.***out***.println();

}

}

}

**27.matrixaddition**

**package** test;

**import** java.util.\*;

**public** **class** matrixaddition {

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

**int** a[][]= {{1,2},{2,3}};

**int** b[][]= {{1,2},{2,3}};

**int** c[][]=**new** **int**[2][2];

**for**(**int** i=0;i<2;i++)

{

**for**(**int** j=0;j<2;j++)

{

c[i][j]=a[i][j]\*b[i][j];

System.***out***.print(c[i][j]+" ");

}

System.***out***.println();

}

}

}

**28.LCMGCD**

**package** csa0981;

**import** java.util.\*;

**public** **class** lcmgcd {

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

Scanner aa = **new** Scanner(System.***in***);

System.***out***.println("enter the number");

**int** n1 = aa.nextInt();

Scanner ab= **new** Scanner(System.***in***);

System.***out***.println("enter the number");

**int** n2=ab.nextInt();

**int** r,tn1=n1,tn2=n2;

**while**(n1 % n2!=0)

{

r=n1%n2;

n1=n2;

n2=r;

}

System.***out***.println("the gcd is"+n2);

**int** lcm;

lcm=(tn1\*tn2)/n2;

System.***out***.println("the lcm is"+lcm);

}

}

29.no of vowels and consonents printing

**package** csa0981;

**import** java.util.\*;

**public** **class** vowelsconsonents {

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

Scanner aa = **new** Scanner(System.***in***);

StringBuffer str = **new** StringBuffer("vamsi");

**int** n =str.length();

**int** vowels=0,consonents=0;

System.***out***.println("the vowels are");

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

{

**if**(str.charAt(i)=='a'||str.charAt(i)=='e'||str.charAt(i)=='i'||str.charAt(i)=='o'||str.charAt(i)=='u'||str.charAt(i)=='A'||str.charAt(i)=='E'||str.charAt(i)=='I'||

str.charAt(i)=='O'||str.charAt(i)=='U')

{

vowels++;

}

}

System.***out***.println("the consononts are");

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

{

**if**(str.charAt(i)=='a'||str.charAt(i)=='e'||str.charAt(i)=='i'||str.charAt(i)=='o'||str.charAt(i)=='u'||str.charAt(i)=='A'||str.charAt(i)=='E'||str.charAt(i)=='I'||

str.charAt(i)=='O'||str.charAt(i)=='U')

{

**continue**;

}

**else**

{

consonents++;

}

}

System.***out***.println("the vowels are"+vowels);

System.***out***.println("the consonents are"+consonents);

}

}

**30.printing vowels and consonents letters**

**package** csa0981;

**import** java.util.\*;

**public** **class** vowelsletters {

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

Scanner aa = **new** Scanner(System.***in***);

StringBuffer str = **new** StringBuffer("vamsi is a boy");

**int** n = str.length();

**int** vowels=0,consonents=0;

System.***out***.println("the vowels are");

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

{

**if**(str.charAt(i)=='a'||str.charAt(i)=='e'||str.charAt(i)=='i'||str.charAt(i)=='o'||str.charAt(i)=='u'||

str.charAt(i)=='A'||str.charAt(i)=='E'||str.charAt(i)=='I'||str.charAt(i)=='O'||str.charAt(i)=='U')

{

System.***out***.println(str.charAt(i));

}

}

System.***out***.println("the consonents are");

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

{

**if**(str.charAt(i)=='a'||str.charAt(i)=='e'||str.charAt(i)=='i'||str.charAt(i)=='o'||str.charAt(i)=='u'||

str.charAt(i)=='A'||str.charAt(i)=='E'||str.charAt(i)=='I'||str.charAt(i)=='O'||str.charAt(i)=='U'||str.charAt(i)==' ')

{

**continue**;

}

**else**

{

System.***out***.println(str.charAt(i));

}

}

}

}

**31.m to n numbers by skipping the k value**

**package** csa0981;

**import** java.util.\*;

**public** **class** mton {

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

Scanner aa = **new** Scanner(System.***in***);

System.***out***.println("enter the value m");

**int** m = aa.nextInt();

Scanner ab = **new** Scanner(System.***in***);

System.***out***.println("enter the value n");

**int** n = ab.nextInt();

Scanner ac = **new** Scanner(System.***in***);

System.***out***.println("enter the value k");

**int** k = aa.nextInt();

**for**(**int** i=m;i<=n;i=i+k+1)

{

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

}

}

}

**32.removevowels**

**package** csa0981;

**import** java.util.\*;

**public** **class** removevowels {

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

Scanner aa= **new** Scanner(System.***in***);

System.***out***.println("enter the word");

String word = aa.next();

String n1= word.replaceAll("[aeiouAEIOU]","");

System.***out***.println(n1);

}

}

**33.character present in the sentence**

**package** csa0981;

**import** java.util.\*;

**public** **class** character {

**public** **static** **void** main(String[] arms) {

Scanner aa = **new** Scanner(System.***in***);

System.***out***.println("enter the word");

String n = aa.nextLine();

Scanner ab = **new** Scanner(System.***in***);

System.***out***.println("enter the character");

**char** ch = ab.next().charAt(0);

**int** v=0;

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

{

**if**(n.charAt(i)==ch)

{

System.***out***.println("character is present"+i);

v=1;

}

}

**if**(v==0)

{

System.***out***.println("character is not present");

}

}

}

34.ALPHABETICAL ORDER

**package** csa0981;

**import** java.util.\*;

**public** **class** alphabetical {

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

Scanner a = **new** Scanner(System.***in***);

System.***out***.println("enter the no of inputs");

**int** n = a.nextInt();

String str[] = **new** String[n];

System.***out***.println("enter the words");

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

{

str[i]=a.next();

}

System.***out***.println("enter A/D");

String x = a.next();

Arrays.*sort*(str);

System.***out***.println("the output is");

**if**(x.charAt(0)=='D')

{

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

{

System.***out***.println(n-i-1);

}

}

**else** **if**(x.charAt(0)=='A')

{

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

{

System.***out***.println(str[i]);

}

}

**else**

{

System.***out***.println("error in the input");

}

}

}

**35.COUNTFACTOR**

**package** csa0981;

**import** java.util.\*;

**public** **class** countfactors{

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

Scanner aa = **new** Scanner(System.***in***);

System.***out***.println("enter the number");

**int** n = aa.nextInt();

**int** factors=0;

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

{

**if**(n%i==0)

factors++;

}

{

System.***out***.println("the factors is"+factors);

}

}

}

36.SPECIAL CHARACTERS

**package** csa0981;

**import** java.util.\*;

**public** **class** specialcharacter {

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

Scanner aa = **new** Scanner(System.***in***);

System.***out***.println("enter the sentence");

String in = aa.nextLine();

**int** n= in.length();

**int** cap=0,sm=0,num=0,sp=0,spl=0,d;

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

{

d=in.charAt(i);

**if**(d>='A'&& d<='Z')

cap++;

**else** **if**(d>='a'&& d<='z')

sm++;

**else** **if**(d>='0'&& d<='9')

num++;

**else** **if**(d==' ')

sp++;

**else**

{

spl++;

System.***out***.println(in.charAt(i));

}

}

System.***out***.println("the special character is"+spl);

}

}

**37.COMPOSITE A&B**

**package** csa0981;

**import** java.util.\*;

**public** **class** compositeab {

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

Scanner aa = **new** Scanner(System.***in***);

System.***out***.println("enter the number1");

**int** a =aa.nextInt();

Scanner ab = **new** Scanner(System.***in***);

System.***out***.println("enter the number2");

**int** b =ab.nextInt();

**for**(**int** i=a+1;i<=b;i++)

{

**int** c=0;

**for**(**int** j=1;j<=b;j++)

{

**if**(i%j==0)

c++;

}

**if**(c>2)

System.***out***.println(i+"");

}

}

}

**38INVERTED PYRAMID STAR**

**package** csa0981;

**import** java.util.\*;

**public** **class** invertedpyramid {

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

Scanner aa = **new** Scanner(System.***in***);

System.***out***.println("enter the number");

**int** n = aa.nextInt();

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

{

**for**(**int** j=0;j<=i;j++)

{

System.***out***.println(" ");

}

**for**(**int** j=0;j<n-i;j++)

{

System.***out***.print("\* ");

}

System.***out***.println( );

}

}

}

39.HELLOSQUAREPATTERN

**package** csa0981;

**import** java.util.\*;

**public** **class** hellosquarepattern {

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

Scanner aa = **new** Scanner(System.***in***);

System.***out***.println("enter the number");

**int** n = aa.nextInt();

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

{

**for**(**int** j=1;j<=n;j++)

{

**if**(i==1||j==1||i==n||j==n)

System.***out***.print("\*");

**else**

System.***out***.print(" ");

}

System.***out***.println();

}

}

}

**40.SQRT**

**package** csa0981;

**import** java.util.\*;

**public** **class** sqrt {

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

Scanner aa = **new** Scanner(System.***in***);

System.***out***.println("enter the number");

**int** n = aa.nextInt();

**double** sq = Math.*sqrt*(n);

System.***out***.println(sq+","+"-"+sq);

}

}

**41.frequency**

**package** csa0981;

**import** java.util.\*;

**public** **class** fre {

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

Scanner aa = **new** Scanner(System.***in***);

System.***out***.println("enter the no of inputs");

**int** n = aa.nextInt();

System.***out***.println("enter the elements");

**int** a[]=**new** **int**[n];

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

{

a[i]=aa.nextInt();

}

**int** c[]=**new** **int**[n];

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

{

c[i]=1;

**for**(**int** j=i+1;j<n;j++)

{

**if**(a[i]==a[j]&&a[i]!=-1)

{

c[i]++;

a[j]=-1;

}

}

**if**(a[i]!=-1)

{

System.***out***.println(a[i]+" frequency is"+c[i]);

}

}

}

}

**42.MEAN MEDIAN MODE**

**package** csa0981;

**import** java.util.\*;

**public** **class** mean {

**public** **static** **void** main(String[] args)

{

Scanner sc=**new** Scanner(System.***in***);

System.***out***.println("enter the number of values");

**int** n=sc.nextInt();

**int** a[]=**new** **int**[n];

**int** sum=0;

**int** count=0;

System.***out***.println("enter the values");

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

{

a[i]=sc.nextInt();

sum=sum+a[i];

}

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

{

**for**(**int** j=i+1;j<n;j++)

{

**if**(a[i]==a[j])

{

System.***out***.println("mode"+a[i]);

**break**;

}

}

}

**int** mean=sum/n;

Arrays.*sort*(a);

**int** median=((n+1)/2);

System.***out***.println("the median is"+a[median-1]);

System.***out***.println("mean "+mean);

}

}

43.nthoddaftern

**package** csa0981;

**import** java.util.\*;

**public** **class** ntho {

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

Scanner aa = **new** Scanner(System.***in***);

System.***out***.println("enter the value");

**int** n = aa.nextInt();

**int** a =n\*2;

**int** b= 2\*a-1;

System.***out***.println(n+"odd number"+b);

}

}

44.passcal

**package** csa0981;

**import** java.util.\*;

**public** **class** pass {

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

Scanner aa = **new** Scanner(System.***in***);

System.***out***.println("enterv the value");

**int** n = aa.nextInt();

**int** sp=n;

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

{

**int** num=1;

**for**(**int** j=1;j<=sp;j++)

{

System.***out***.print(" ");

}

**for**(**int** j=0;j<=i;j++)

{

System.***out***.print(num+" ");

num=num\*(i-j)/(j+1);

}

sp--;

System.***out***.println();

}

}

}

**43.ascending parror**

**import java.util.\*;**

**public class Main{**

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

**Scanner aa = new Scanner(System.in);**

**String S[] = {"apple","banana","cat"};**

**System.out.println("enter the character");**

**char ch=aa.next().charAt(0);**

**Arrays.sort(S);**

**if(ch=='A'||ch=='a')**

**{**

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

**{**

**System.out.println(S[i]);**

**}**

**}**

**if(ch=='D'||ch=='d')**

**{**

**for(int i=S.length-1;i>=0;i--)**

**{**

**System.out.println(S[i]);**

**}**

**}**

**}**

**}**

44. \*

\* \*

\* \* \*

\* \* \* \*

\* \* \* \* \*

**package** csa0981;

**import** java.util.\*;

**public** **class** patter10 {

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

Scanner aa = **new** Scanner(System.***in***);

System.***out***.println("enter the num");

**int** n = aa.nextInt();

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

{

**for**(**int** j=0;j<=n-i;j++)

{

System.***out***.print(" ");

}

**for**(**int** j=1;j<=i;j++)

{

System.***out***.print("\*");

}

System.***out***.println();

}

}

}

45.simple intersert

import java.util.\*;

public class Main{

public static void main(String[] args){

Scanner aa = new Scanner(System.in);

System.out.println("enter the age");

char age = aa.next().charAt(0);

System.out.println("enter the prinipal");

int p =aa.nextInt();

System.out.println("enter the total");

int t =aa.nextInt();

double interest=0;

if(age=='y')

{

interest=(p\*t\*0.12)/100;

System.out.println(interest);

}

else

{

interest=(p\*t\*0.1)/100;

System.out.println(interest);

}

}

}

46.FREQUENCY

**package** csa0981;

**import** java.util.\*;

**public** **class** fre {

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

Scanner aa = **new** Scanner(System.***in***);

System.***out***.println("enter the no of inputs");

**int** n = aa.nextInt();

System.***out***.println("enter the elements");

**int** a[]=**new** **int**[n];

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

{

a[i]=aa.nextInt();

}

**int** c[]=**new** **int**[n];

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

{

c[i]=1;

**for**(**int** j=i+1;j<n;j++)

{

**if**(a[i]==a[j]&&a[i]!=-1)

{

c[i]++;

a[j]=-1;

}

}

**if**(a[i]!=-1)

{

System.***out***.println(a[i]+" frequency is"+c[i]);

}

}

}

}