1. **Write a program to display "welcome to c language".**

class Main

{

public static void main(String args[])

{

System.out.println("Welcome to C Language");

}

}

1. **Write a program to multiply and divide two numbers and print them in the form of equation**

**(4\*3=12 8/4=2)?**

import java.util.\*;

public class Main

{

public static void main(String[] args)

{

int a,b,c,d;

Scanner sc = new Scanner(System.in);

System.out.println("Enter the Numbers");

a=sc.nextInt();

b=sc.nextInt();

c=sc.nextInt();

d=sc.nextInt();

System.out.println(a+"\*"+b+"="+(a\*b));

System.out.println(c+"/"+d+"="+(c/d));

}

}

1. **Write a program to find the addition of two numbers**

import java.util.\*;

public class Main

{

public static void main(String[] args)

{

int a,b,c;

Scanner sc = new Scanner(System.in);

System.out.println("Enter two Numbers");

a=sc.nextInt();

b=sc.nextInt();

c=a+b;

System.out.println("Addition of Two numbers:"+c);

}

}

1. **Write a program to find this subtraction of three numbers**

import java.util.\*;

public class Main

{

public static void main(String[] args)

{

int a,b,c,d;

Scanner sc = new Scanner(System.in);

System.out.println("Enter Three Numbers");

a=sc.nextInt();

b=sc.nextInt();

c=sc.nextInt();

d=a-b-c;

System.out.println("Substraction of Three nembers:"+d);

}

}

1. **Write a program to find the multiplication of four numbers**

import java.util.\*;

public class Main

{

public static void main(String[] args)

{

int a,b,c,d,f;

Scanner sc = new Scanner(System.in);

System.out.println("Enter Four Numbers");

a=sc.nextInt();

b=sc.nextInt();

c=sc.nextInt();

d=sc.nextInt();

f=a\*b\*c\*d;

System.out.println("Munltiplication Of Four Numbers"+f);

}

}

1. **Write a program to find addition of 5 numbers**

import java.util.\*;

public class Main

{

public static void main(String[] args)

{

int a,b,c,d,e,f;

Scanner sc = new Scanner(System.in);

System.out.println("Enter Five Numbers");

a=sc.nextInt();

b=sc.nextInt();

c=sc.nextInt();

d=sc.nextInt();

e=sc.nextInt();

f=a+b+c+d+e;

System.out.println("Munltiplication Of Four Numbers"+f);

}

}

1. **Write a program to find the area of circle.**

import java.util.\*;

public class Main

{

public static void main(String[] args)

{

double A,r;

Scanner sc = new Scanner(System.in);

System.out.println("Enter the value of r");

r=sc.nextDouble();

A=3.14\*r\*r;

System.out.println("Area Of Circle:"+A);

}

}

1. **Write the program to find the area of triangle**

import java.util.\*;

public class Main

{

public static void main(String[] args)

{

double A,b,h;

Scanner sc = new Scanner(System.in);

System.out.println("Enter the value of b & h");

b=sc.nextDouble();

h=sc.nextDouble();

A=0.5\*b\*h;

System.out.println("Area Of Triangle"+A);

}

}

1. **Write the program to find area of rectangle**

import java.util.\*;

public class Main

{

public static void main(String[] args)

{

double A,l,w;

Scanner sc = new Scanner(System.in);

System.out.println("Enter the value of l & w");

l=sc.nextDouble();

w=sc.nextDouble();

A=l\*w;

System.out.println("Area Of Rectangle"+A);

}

}

1. **Write a program to find the square and cube of a given number?**

import java.util.\*;

public class Main

{

public static void main(String[] args)

{

int a,b,c;

Scanner sc = new Scanner(System.in);

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

a=sc.nextInt();

b=a\*a;

System.out.println("Square Root of a:"+b);

c=a\*a\*a;

System.out.println("Cube Of a:"+c);

}

}

1. **Write a program to find the square root of a given number (use sqrt () function)? Math.sqrt(a)**

import java.util.\*;

public class Main

{

public static void main(String[] args)

{

int a;

double b;

Scanner sc = new Scanner(System.in);

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

a=sc.nextInt();

b=Math.sqrt(a);

System.out.println("Square Root:"+b);

}

}

1. **Write a program to find the area and perimeter of a square?**

import java.util.\*;

public class Main

{

public static void main(String[] args)

{

int A,P,s;

Scanner sc = new Scanner(System.in);

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

s=sc.nextInt();

A=s\*s;

P=4\*s;

System.out.println("Area of Square:"+A);

System.out.println("Perimeter of Square:"+P);

}

}

1. **Write a program to find the area and circumference of a circle?**

import java.util.\*;

public class Main

{

public static void main(String[] args)

{

double A,C,r;

Scanner sc = new Scanner(System.in);

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

r=sc.nextDouble();

A=3.14\*r\*r;

C=2\*3.14\*r;

System.out.println("Area of Square:"+A);

System.out.println("Perimeter of Square:"+C);

}

}

1. **Write a program to find the area of a sphere?**

import java.util.\*;

public class Main

{

public static void main(String[] args)

{

double A,r;

Scanner sc = new Scanner(System.in);

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

r=sc.nextDouble ();

A=4\*3.14\*r\*r;

System.out.println("Area of Sphere:"+A);

}

}

1. **Write a program to find the volume of a cylinder?**

import java.util.\*;

public class Main

{

public static void main(String[] args)

{

double A,r;

Scanner sc = new Scanner(System.in);

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

r=sc.nextDouble();

A=4\*3.14\*r\*r;

System.out.println("Volume of Cylinder:"+A);

}

}

1. **Write a program to find your age in days?**

import java.util.\*;

public class Main

{

public static void main(String[] args)

{

int a,b;

Scanner sc = new Scanner(System.in);

System.out.println("Enter Your Age:");

a=sc.nextInt();

b=a\*365;

System.out.println("Your age in a Day:"+b);

}

}

1. **Write a program to read your address and print it?**

import java.util.\*;

public class Main

{

public static void main(String[] args)

{

System.out.println(" Address:");

System.out.println(" At.Post Sawarghar, Tal-Patan, Dist-Satara");

}

}

1. **Write a program to print the area of triangle if three sides are given?**

import java.util.\*;

public class Main

{

public static void main(String[] args)

{

double s1,s2,s3,C,A,sqrt;

Scanner sc = new Scanner(System.in);

System.out.println("Enter the Length of Three Sides:");

s1=sc.nextDouble ();

s2=sc.nextDouble ();

s3=sc.nextDouble ();

C=(s1+s2+s3)/2;

A=sqrt(C\*(C-s1)\*(C-s2)\*(C-s3));

System.out.println("Area of Sphere:"+A);

}

}

1. **Write a program to read the marks of 5 subjects and display the total, per, class**

import java.util.\*;

public class Main

{

public static void main(String[] args)

{

double p,a,b,c,d,e,t;

Scanner sc = new Scanner(System.in);

System.out.println("Class:BCA-III:");

System.out.println("Enter the Marks of subjecte:");

a=sc.nextInt();

b=sc.nextInt();

c=sc.nextInt();

d=sc.nextInt();

e=sc.nextInt();

t=a+b+c+d+e;

p=t/500\*100;

System.out.println("Total of Marks:"+t);

System.out.println("Percentage:"+p);

}

}

1. **Write a program to find the simple interest and compound interest?**

import java.util.\*;

public class Main

{

public static void main(String[] args)

{

double S,C,p,r,t;

Scanner sc = new Scanner(System.in);

System.out.println("Enter the value of p,r & t");

p=sc.nextDouble();

r=sc.nextDouble();

t=sc.nextDouble();

S=p\*r\*t/100;

System.out.println("Simple Interest:"+S);

C=p\*(Math.pow((1+r/100),t)-1);

System.out.println("Compound Interest:"+C);

}

}

1. **The total mechanical energy of a particle is given by e = mgh+(1/2) mv^2?**

import java.util.\*;

public class Main

{

public static void main(String[] args)

{

double m,g,h,v;

Scanner sc = new Scanner(System.in);

System.out.println("Enter the Length of Three Sides:");

m=sc.nextDouble ();

g=sc.nextDouble ();

h=sc.nextDouble ();

v=sc.nextDouble ();

e= m\*g\*h+(1/2)m\*v\*v;

System.out.println("Total Mechanical Energy of particle:"+e);

}

}

1. **Write a program to accept length breathe and height of room and accept length and height of doors and window to calculate total area to be printed (including roof also)**

import java.util.\*;

class Main

{

public static void main(String[] args)

{

double l,b,h,l1,h1,l2,h2,Total;

Scanner sc = new Scanner(System.in);

System.out.println("Enter l,b,h of room ");

l=sc.nextDouble();

b=sc.nextDouble();

h=sc.nextDouble();

System.out.println("Enter l1,h1 of door ");

l1=sc.nextDouble();

h1=sc.nextDouble();

System.out.println("Enter l2,h2 of window ");

l2=sc.nextDouble();

h2=sc.nextDouble();

Total=(2\*(l+b)+2\*(b+h)+2\*(l+h)-(l1\*h1)-(l2\*h2)-(l\*b));

System.out.println( "Total Area to be printed"+Total) ;

}

}

**24.** **Write a program to accept basic salary from user and calculate HRA, TA and DA and calculate gross salary**

import java.util.\*;

public class Main

{

public static void main(String[] args)

{

double bs,hra,ta,da,gs;

Scanner sc = new Scanner(System.in);

System.out.println("Enter the Basic Salary:");

bs=sc.nextDouble ();

hra=bs\*0.15;

ta=bs\*0.20;

da=bs\*0.25;

gs=hra+ta+da+bs;

System.out.println("HRA:+hra");

System.out.println("DA:+da");

System.out.println("TA:+ta");

System.out.println("Total:+gs");

}

}

**25. Write a program to perform swapping of two number using third variable**

import java.util.\*;

class Main

{

public static void main(String[] args)

{

int a, b,c;

Scanner sc = new Scanner(System.in);

System.out.println("Enter 4 numbers: ");

a = sc.nextInt();

b = sc.nextInt();

a=b;

b=c;

System.out.println("a=" + a) ;

System.out.println("b=" + b) ;

}

}

**26. Write a program to perform swapping of two number without using third variable**

import java.util.\*;

class Main

{

public static void main(String[] args)

{

int a, b;

Scanner sc = new Scanner(System.in);

System.out.println("Enter 4 numbers: ");

a = sc.nextInt();

b = sc.nextInt();

a=a+b; //10+5= 15 a=15

b=a-b; //15-5=10 b=10

a=a-b; //15-10=5

System.out.println("a=" + a) ;

System.out.println("b=" + b) ;

}

}

**27. Write a program to perform swapping of two number with by using bitwise operator**

import java.util.\*;

class Main

{

public static void main(String[] args)

{

int a, b;

Scanner sc = new Scanner(System.in);

System.out.println("Enter a,b");

a = sc.nextInt();

b=sc.nextInt();

a = a ^ b;

b=a^b;

a=a^b;

System.out.println("a=" + a) ;

System.out.println("b=" + b);

}

}

**28. Write a program to perform conversion of litres to millilitres**

import java.util.\*;

class Main

{

public static void main(String[] args)

{

int lit,mil;

Scanner sc = new Scanner(System.in);

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

lit = sc.nextInt();

mil= lit\*1000;

System.out.println("Millilitre is = "+mil ) ;

}

}

**29. Write a program to perform conversion of kilometres to metres**

import java.util.\*;

class Main

{

public static void main(String[] args)

{

int km,m;

Scanner sc = new Scanner(System.in);

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

km = sc.nextInt();

m= km\*1000;

System.out.println("meter is = "+m) ;

}

}

**30. Write a program to perform conversion between h:m:s to seconds**

import java.util.\*;

public class Main

{

public static void main(String[] args)

{

int h,m,s,seconds;

Scanner sc = new Scanner(System.in);

System.out.println("Enter h,m,s");

h=sc.nextInt ();

m=sc.nextInt ();

s=sc.nextInt ();

seconds=((h\*3600)+(m\*60)+s);

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

}

}

**31. Write a program to perform conversion of millilitres to litres**

import java.util.\*;

class Main

{

public static void main(String[] args)

{

int l,ml,x;

Scanner sc = new Scanner(System.in);

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

ml = sc.nextInt();

l= ml/1000;

x=ml%1000;

System.out.println( l+"litre" + x+"ml" ) ;

}

}

**32. Write a program to perform conversion of metres to kilometres**

import java.util.\*;

class Main

{

public static void main(String[] args)

{

int m, km;

Scanner sc = new Scanner(System.in);

System.out.println("Enter metre ");

m= sc.nextInt();

km= m/1000;

System.out.println( km+"kilometre") ;

}

}

**33. Write a program to perform conversion of seconds to h:m:s**

import java.util.\*;

class Main

{

public static void main(String[] args)

{

int h,m,s,sec;

Scanner sc = new Scanner(System.in);

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

sec=sc.nextInt();

h=sec/3600;

m=(sec%3600)/60;

s=sec%60;

System.out.println(h+":" +m+":" +s);

}

}

**34. Write a program to find remainder and quotient by accepting divisor and dividend**

import java.util.\*;

public class Main

{

public static void main(String[] args)

{

double dividend,divisor,q,r;

Scanner sc = new Scanner(System.in);

System.out.println("Enter the value of Divident & Divisor:");

dividend=sc.nextDouble();

divisor=sc.nextDouble();

q= dividend/divisor;

r=dividend % divisor;

System.out.println("Quotient="+q+ "Remainder="+r);

}

}

**35. Write a program to perform reverse operation on four-digit numbers**

import java.util.\*;

public class Main

{

public static void main(String[] args)

{

int n,a,b,c;

Scanner sc = new Scanner(System.in);

System.out.println("Enter n:");

n=sc.nextInt ();

a=n%10;

n=n/10;

b=n%10;

n=n/10;

c=n%10;

n=n/10;

System.out.println(a+""+b+""+c+""+n);

}

}

**36. Write a program to find the square root given number by using sqrt() function**

import java.util.\*;

class squareroot

{

public static void main(String[] args)

{

int a;

double b;

Scanner area = new Scanner(System.in);

System.out.println("Enter 1 numbers");

a=area.nextInt();

b=Math.sqrt(a);

System.out.println("square root"+b);

}

}

**37. A milk vendor buys milk at the rate of 3.25/- the then adds a litre of water for every four litres of milk and sells the water milk at the rate of 4.15/1t. Calculate the gain for milk vendor?**

import java.util.\*;

public class Main

{

public static void main(String[] args)

{

double milk,total,a;

Scanner sc = new Scanner(System.in);

System.out.println("Enter milk in litre");

milk=sc.nextDouble ();

total=milk-(milk/4);

a=(total\*4.15)-(milk\*3.25);

System.out.println("profit="+a);

}

}

**38. The temperature of the city is input through the keyboard in fahrenheit. Write a program to convert into celsius?**

import java.util.\*;

public class Main

{

public static void main(String[] args)

{

double C,f;

Scanner sc = new Scanner(System.in);

System.out.println("Enter the value Fahrenheit:");

f=sc.nextDouble();

C= (9/5)\*f-32;

System.out.println("Celsius:"+C);

}

}

**39. Given the coordinates of two points (x1,y1) and (x2,y2). Write a program to find the distance between these two points?**

import java.util.\*;

public class Main

{

public static void main(String[] args)

{

double distance,x1,x2,y1,y2;

Scanner sc = new Scanner(System.in);

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

x1=sc.nextDouble();

y1=sc.nextDouble();

x2=sc.nextDouble();

y2=sc.nextDouble();

distance=Math.sqrt(Math.pow (x2-x1,2)+Math.pow (y2-y1,2));

System.out.println( "Distance"+distance);

}

}

**40. Rajesh’s basic salary is input through the keyboard. His d.a. is 40% of basic salary, and h.r.a. is 20% of basic salary. Write a program to calculate his gross sal?**

import java.util.\*;

class Main

{

public static void main(String[] args)

{

double GS,hra,da,bs,Total;

Scanner sc = new Scanner(System.in);

System.out.println("Enter Basic Salary ");

bs=sc.nextDouble();

hra=bs\*0.4;

da=bs\*0.2;

GS=hra+da+bs;

System.out.println( "HRA"+hra) ;

System.out.println( "DA"+da) ;

System.out.println( "Total"+GS) ;

}

}

**41. The distance between two cities in km. Is input through the keyboard.** **Write a program to convert and print the result in meters and centimetres?**

import java.util.\*;

class Main

{

public static void main(String[] args)

{

int km,m,cm;

Scanner sc = new Scanner(System.in);

System.out.println("Enter kilometre ");

km= sc.nextInt();

m=km\*1000;

cm=m\*1000;

System.out.println( m+"metre"+ cm+ "centimetre") ;

}

}

**42. Write a program which accepts the amount in dollars and convert into rupees?**

import java.util.\*;

class Main

{

public static void main(String[] args)

{

double d, rs;

Scanner sc = new Scanner(System.in);

System.out.println("Enter Dollar ");

d=sc.nextDouble();

rs=d\*85.76;

System.out.println("$"+rs) ;

}

}

**43. Write a program to find kinetic energy and potential energy**

import java.util.\*;

public class Main

{

public static void main(String[] args)

{

double ke,pe,m,v,g,h;

Scanner sc = new Scanner(System.in);

System.out.println("Enter m,v,g,h");

m=sc.nextDouble();

v=sc.nextDouble();

g=sc.nextDouble();

h=sc.nextDouble();

ke=0.5\*m\*v\*v;

pe=m\*g\*h;

System.out.println("Kinetic Energy="+ke);

System.out.println("Potential Energy="+pe);

}

}

**44. Write a program to find arithmetic mean and harmonic mean**

import java.util.\*;

public class Main

{

public static void main(String[] args)

{

int am,h,a,b;

Scanner sc = new Scanner(System.in);

System.out.println("Enter a,b");

a=sc.nextInt();

b=sc.nextInt();

am=(a+b)/2;

System.out.println("Arithmetic mean"+am);

h=(a-b)/2;

System.out.println("Harmonic mean"+h);

}

}

**45. Write a program to find the surface area of cylinder**

import java.util.\*;

public class Main

{

public static void main(String[] args)

{

double A,r,h;

Scanner sc = new Scanner(System.in);

System.out.println("Enter surface area of cylinder");

r=sc.nextDouble();

h=sc.nextDouble();

A=2\*3.14\*r\*h+2\*3.14\*r\*r;

System.out.println("Surfece area of cylinder:"+A);

}

}

**46. Write a program to find velocity and distance by using newton's law**

import java.util.\*;

public class Main

{

public static void main(String[] args)

{

double u,a,t,S,V;

Scanner sc = new Scanner(System.in);

System.out.println("Enter surface u,a,t");

u=sc.nextDouble();

a=sc.nextDouble();

t=sc.nextDouble();

V= u+a\*t;

S=u\*t+0.5\*a\*t\*t;

System.out.println("Velocity:"+V);

System.out.println("Distence:"+V);

}

}

**47. Write a program to find the area and perimeter of the ring**

import java.util.\*;

public class Main

{

public static void main(String[] args)

{

double R,r,A,P;

Scanner sc = new Scanner(System.in);

System.out.println("Enter the value of Outher Redius & Inner Redius:");

R=sc.nextDouble();

r=sc.nextDouble();

A=Math.PI\*(R\*R-r\*r);

P=2\* Math.PI\*(R+r);

System.out.println("Area of Ring:"+A);

System.out.println("Perimeter of Ring:"+P);

}

}

**48. Write a program to find the volume and surface area of cuboid**

import java.util.\*;

public class Main

{

public static void main(String[] args)

{

double l,w,h,V,Sa;

Scanner sc = new Scanner(System.in);

System.out.println("Enter the value of l,w,h");

l=sc.nextDouble();

w=sc.nextDouble();

h=sc.nextDouble();

V=l\*w\*h;

Sa=2\*(l\*w+w\*h+h\*l);

System.out.println("Velocity:"+V);

System.out.println("Distence:"+Sa);

}

}

**49. Write a program to convert the temperature from Celsius to kelvin unit**

import java.util.\*;

public class Main

{

public static void main(String[] args)

{

double K,c;

Scanner sc = new Scanner(System.in);

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

c=sc.nextDouble();

K= c + 273.15;

System.out.println("Conersion of Celsius to Kelvin unit:"+K);

}

}

**50. Write a programme to accept a number from user and display its ascii value**

import java.util.\*;

public class Main

{

public static void main(String[] args)

{

char a;

Scanner sc = new Scanner(System.in);

System.out.println("Enter Character");

a=sc.next().charAt(0);

System.out.println("Ascii="+(int)a);

}

}