01. write a program to display "welcome to c language".

```
import java.util.*;
public class Main

{
	public static void main(String[] args)
	{
		System.out.println("welcome to clanguage");
	}
}
```

Output:

welcome to clanguage

02. Write a program to mul ply 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 n1,n2,mul;
	   double div;
	   Scanner Sc=new Scanner(System.in);
		System.out.println("Enter two numbers");
		n1=Sc.nextInt();
		n2=Sc.nextInt();
		mul=n1*n2;
		div=n1/n2;
		System.out.println("multiplication="+mul);
		System.out.println("division="+div);
	}
}
```

Output:

```
Enter two numbers
16
2
multiplication=32
```

division=8.0

03. 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="+c);
        }
}
```

Output:

```
Enter two numbers
4
8
addition=12
```

04. write a program to find this subtraction of three numbers .

```
import java.util.*;
public class Main

{
        public static void main(String[] args)
        {
           int x,y,z,sub;
           Scanner Sc=new Scanner(System.in);
                System.out.println("Enter three numbers");
                x=Sc.nextInt();
           y=Sc.nextInt();
           z=Sc.nextInt();
                sub=x-y-z;
                System.out.println("substraction="+sub);
        }
```

```
}
```
Output:

```
Enter three numbers
8
4
2
substraction=2
```

05. write a program to find the multiplication of four numbers.

```
 import java.util.*;
public class Main

{
        public static void main(String[] args)
        {
           int p,q,r,s,t;
           Scanner Sc=new Scanner(System.in);
           System.out.println("Enter four numbers");
            p=Sc.nextInt();
           q=Sc.nextInt();
           r=Sc.nextInt();
           s=Sc.nextInt();
           t=p*q*r*s;
           System.out.println("multiplication="+t);
        }
}
```
Output:

```
Enter four numbers
4
2
1
5
multiplication=40
```

06. 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,add;
Scanner Sc=new Scanner(System.in);
System.out.println("Enter four numbers");
a=Sc.nextInt();
b=Sc.nextInt();
c=Sc.nextInt();
d=Sc.nextInt();
e=Sc.nextInt();
add=a+b+c+d+e;
System.out.println("Addition="+add);
}
}
```

Output:

```
Enter four numbers
10
20
30
40
50
Addition=150
```

07. write a program to find the area of circle .

```
import java.util.*;
public class Main

{
        public static void main(String[] args)
        {
           int r;
           double a;
           Scanner Sc=new Scanner(System.in);
          System.out.println("Enter number");
           r=Sc.nextInt();
           a=3.14*r*r;
          System.out.println("Area of circle="+a);
        }
```

```
}
```
Output:

```
Enter number
7
Area of circle=153.86
```

09. write the program to find the area of triangle.

```
import java.util.*;
public class Main
{
        public static void main(String[] args)
        {
           int l,b;
           double t;
           Scanner Sc=new Scanner(System.in);
           System.out.println("Enter length and breadth");
           l=Sc.nextInt();
           b=Sc.nextInt();
           t=0.5*l*b;
          System.out.println("Area of triangle="+t);
        }
}
```
Output:

```
Enter length and breadth
3
3
Area of triangle=4.5
```

10. write the program to find area of rectangle .

```
import java.util.*;
public class Main

{
        public static void main(String[] args)
        {
           int l,b,r;
           Scanner Sc=new Scanner(System.in);
           System.out.println("Enter length and breadth");
```

```
            l=Sc.nextInt();
            b=Sc.nextInt();
            r=l*b;
            System.out.println("Area of Rectangle="+r);
        }
}
```

Output:

```
Enter length and breadth
6
8
Area of Rectangle=48
```

11. 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 n,square,cube;
            Scanner sc=new Scanner(System.in);
            System.out.println("enter number");
            n=sc.nextInt();
            square=n*n;
            cube=n*n*n;
            System.out.println("square="+square);
           System.out.println("cube="+cube);
        }
}
```

Output:

```
enter number
40
square=1600
cube=64000
```

12. 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)
```

```
        {
           double a,squareroot;
           Scanner sc=new Scanner(System.in);
           System.out.println("enter a number");
           a=sc.nextDouble();
          squareroot=Math.sqrt(a);
         System.out.println("squareroot="+squareroot);
        }
}
```

Output:

enter a number
25
squareroot=5.0

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

```
import java.util.*;
public class Main
{
        public static void main(String[] args)
        {
      double area,perimeter,side;
      Scanner sc=new Scanner(System.in);
      System.out.println("Enter side of square");
      side=sc.nextDouble();
      area=side*side;
      perimeter=4*side;
      System.out.println(" perimeter="+ perimeter);
      System.out.println(" area="+ area);
        }
}
```

Output:

Enter side of square
20
perimeter=80.0
area=400.0

14. 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 r,c,a;
```

```
            Scanner sc=new Scanner(System.in);
            System.out.println("Enter radius");
            r=sc.nextDouble();
            c=2*3.14*r;
            a=3.14*r*r;
           System.out.println(" c="+c);
           System.out.println(" a="+ a);
        }
}
```

Output:

```
Enter radius
8
 c=50.24
 a=200.96
```

15. Write a program to find the area of a sphere?.

```
    import java.util.*;
public class Main
{
        public static void main(String[] args)
        {
           double radius, area;
           Scanner sc=new Scanner(System.in);
           System.out.println("Enter the radius of the sphere: ");
           radius=sc.nextDouble();
           area = 4 * 3.14 * radius * radius;
          System.out.println(" area="+area);
        }
}
```

Output:

```
Enter the radius of the sphere:
9
 area=1017.36
```

16. Write a program to find the volume of a cylinder? .

```
import java.util.*;
public class Main
{
        public static void main(String[] args)
        {
          int r,h;
          double volume;
           Scanner sc=new Scanner(System.in);
```

```
            System.out.println("Enter the radius & height of the cylinder");
            r=sc.nextInt();
            h=sc.nextInt();
           volume = 3.14*(r*r)*h;
           System.out.println("volume="+volume);
        }
}
```

Output:

```
Enter the radius & height of the cylinder
4
8
volume=401.92
```

17. Write a program to find your age in days? .

```
import java.util.*;
public class Main
{
        public static void main(String[] args)
        {
            int age, ageInDays;
            Scanner sc=new Scanner(System.in);
            System.out.println("Enter your age");
             age=sc.nextInt();
            ageInDays = age * 365;
           System.out.println("ageInDays="+ageInDays);
        }
}
```

Output:

```
Enter your age
21
ageInDays=7665
```

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

```
import java.util.*;

public class Main

{

        public static void main(String[] args)

        {

            String address;

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

```
        System.out.println("Enter Address:");
            address=sc.nextLine();
        System.out.println("Your Address is="+address);
          }
}
```

Output:

Enter Address:

Ap kolhapur

Your Address is=Ap Kolhapur

19. 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)
        {
           int b=5,h=10;
           double area;
           Scanner sc=new Scanner(System.in);
           System.out.println("Enter sides of Triangle");
           b=sc.nextInt();
           h=sc.nextInt();
           area=(b*h)/2;
          System.out.println("Area of Triangle="+area);
        }
}
```

Output:

```
Enter sides of Triangle
5
10
Area of Triangle=25.0
```

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

```
import java.util.*;
public class Main
{
        public static void main(String[] args)
        {
```

```
        int m1,m2,m3,m4,m5,total;
        double per;
        Scanner sc=new Scanner(System.in);
            System.out.println("enter the marks of 5 sub");
            m1=sc.nextInt();
            m2=sc.nextInt();
            m3=sc.nextInt();
            m4=sc.nextInt();
            m5=sc.nextInt();
            total=m1+m2+m3+m4+m5;
            per=total/500.0*100;
            System.out.println("total="+total);
            System.out.println("percentage="+per+"%");
    }
}
```

Output:

```
enter the marks of 5 sub
98
87
94
89
80
total=448
percentage=89.60000000000001%
```

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

```
import java.util.*;

public class Main

{

   public static void main(String[] args)

{

    int rate, time;

   double principal,simple_interest, compound_interest;

   Scanner sc=new Scanner(System.in);

   System.out.println("Enter principal amount");

   principal=sc.nextDouble();

   System.out.println("Enter rate of interest (in percentage):");

   rate=sc.nextInt();

   System.out.println("Enter time period (in years):");

   time=sc.nextInt();
```

```
    simple_interest = (principal * rate * time) / 100;
    compound_interest = principal * Math.pow((1 + rate / 100.0), time)- principal;
    System.out.println("simple_interest="+simple_interest);
    System.out.println("compound_interest="+compound_interest);
    }
}
```

Output:

```
Enter principal amount
1000
Enter rate of interest (in percentage):
5
Enter time period (in years):
2
simple_interest=100.0
compound_interest=102.5
```

22. 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;
            double potential_energy, kinetic_energy, total_energy;
            Scanner sc=new Scanner(System.in);
            System.out.println("Enter mass (in kg):");
      m=sc.nextDouble();
      System.out.println("Enter height (in meters): ");
      h=sc.nextDouble();
      System.out.println("Enter velocity (in m/s): ");
      v=sc.nextDouble();
       g = 9.81; // m/s^2
       potential_energy = m * g * h;

       kinetic_energy = 0.5 * m * v * v;

       total_energy = potential_energy + kinetic_energy;

                System.out.println("Potential Energy = "+ potential_energy+"J\n");
```

```
            System.out.println("Kinetic Energy ="+ kinetic_energy+"J\n");
            System.out.println("Total Mechanical Energy = "+ total_energy+"J\n");
        }
}
```

Output:

```
Enter mass (in kg):
300
Enter height (in meters):
10
Enter velocity (in m/s):
45
Potential Energy = 29430.0J
Kinetic Energy =303750.0J
Total Mechanical Energy = 333180.0J
```

23. 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.*;
public class Main
{
        public static void main(String[] args)
        {
           double l,b,h,l1,h1,l2,h2 ;
           Scanner sc=new Scanner(System.in);
                System.out.println("enter the length,height and breatdh of room");
                l=sc.nextInt();
                h=sc.nextInt();
                b=sc.nextInt();
                System.out.println("enter the height of window");
               l1=sc.nextInt();
                h1=sc.nextInt();
                System.out.println("enter the height of window");
                l2=sc.nextInt();
                h2=sc.nextInt();
                double ans=2*(l*b+b*h+l*h)-(l2*h2)-2*(l1*h1)-(l*b);
                System.out.println("ans="+ans);
        }
}
```

Output:

```
enter the length,height and breatdh of room
```

```
6
7
8
enter the height of window
9
5
enter the length,height of door
7
8
ans=98.0
```

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*0.40;
                   ta=bs*0.35;
                  da=bs*0.50;
                   gs=bs+hra+ta+da;
           System.out.println("hra="+hra);
           System.out.println("ta="+ta);
           System.out.println("da="+da);
           System.out.println("gs="+gs);
        }
}
```

Output:

```
enter the basic salary
10000
hra=4000.0
ta=3500.0
da=5000.0
gs=22500.0
```

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

```
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 a=10,b=20");
		a=sc.nextInt();
		b=sc.nextInt();
		c=a;
		a=b;
		b=c;
		System.out.println("a"+a);
		System.out.println("b"+b);
	}
}
```

Output:

```
enter a=10,b=20
10
20
a20
b10
```

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

```
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 a=10,b=20");
		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);
	}
}
```

Output:

```
enter a=10,b=20
10
20
a20
b10
```

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

```
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 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);

        }

}
```

Output:

```
Enter a & b
10 20
a=20
b=10
```

28. write a program to perform conversion of litres to millilitres .

```
import java.util.*;
public class Main
{
        public static void main(String[] args)
```

```
        {
           double litre,ml;
           Scanner sc=new Scanner(System.in);
                System.out.println("enter litre");
                litre=sc.nextDouble();
                ml=litre*1000;
                System.out.println("ml"+ml);
        }
}
```

Output:

```
enter litre
4
ml4000.0
```

29. write a program to perform conversion of kilometres to metres.

```
import java.util.*;
public class Main
{
        public static void main(String[] args)
        {
           double km,m;
           Scanner sc=new Scanner(System.in);
                System.out.println("enter distance in kelometer");
                km=sc.nextDouble();
                m=km*1000;
                System.out.println("m"+m);
        }
}
```

Output:

```
enter distance in kelometer
40
m=40000.0
```

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,sec;
           Scanner sc=new Scanner(System.in);
                System.out.println("enter hour,min,seonds");
                h=sc.nextInt();
                m=sc.nextInt();
                s=sc.nextInt();
```

```
            sec=(h*3600)+(m*60)+s;
            System.out.println("sec="+sec);
        }
}
```

Output:

```
enter hour,min,seonds
2
30
56
sec=9356
```

31. write a program to perform conversion of Millilitres to litres .

```
import java.util.*;
public class Main
{
        public static void main(String[] args)
        {
           int ml,l;
           Scanner sc=new Scanner(System.in);
          System.out.println("enter ml");
           ml=sc.nextInt();
           l=ml/1000;
           ml=ml-(l*1000);
          System.out.println("l="+l);
         System.out.println("ml="+ml);
        }
}
```

Output:

```
enter ml
2400
l=2
ml=400
```

32. write a program to perform conversion of metres to kilometres .

```
import java.util.*;
public class Main
{
        public static void main(String[] args)
        {
          double m,km;
           Scanner sc=new Scanner(System.in);
           System.out.println("enter distance in meter & kelometer");
           m=sc.nextDouble();
```

```
            km=sc.nextDouble();
            m=km*1000;
             km=m/1000;
             System.out.println("m="+m);
            System.out.println("km="+km);
        }
}
```

Output:

```
enter distance in meter & kelometer
4
400
m=400000.0
km=400
```

33. write a program to perform conversion of seconds to H:M:S.

```
import java.util.*;
public class Main
{
        public static void main(String[] args)
        {
    int h,m,s,sec;
            Scanner sc=new Scanner(System.in);
                System.out.println("enter seconds");
            sec=sc.nextInt();
            h=sec/3600;
    sec=sec%3600;
    m=sec/60;
    s=sec%60;
    System.out.println("h="+h);
                System.out.println("m="+m);
                System.out.println("s="+s);
        }
}
```

Output:

```
enter seconds
3657
h=1
m=0
s=57
```

34. write a program to find remainder and quo ent by accepting divisor and dividend .

```
import java.util.*;

public class Main
```

```
{
        public static void main(String[] args)
        {
           double dividend,divisor,quotient,remainder;
           Scanner sc=new Scanner(System.in);
                System.out.println("Enter dividend and divisor");
                dividend=sc.nextDouble();
                divisor=sc.nextDouble();
                quotient=dividend/divisor;
                remainder=dividend%divisor;
                System.out.println("Quotient="+quotient);
                System.out.println("Remainder="+remainder);
        }
}
```

Output:

Enter dividend and divisor

35 7

Quotient=5.0

Remainder=0.0

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 a,b,c,n;
           Scanner sc=new Scanner(System.in);
                System.out.println("enter any no");
           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="+a);
        System.out.println("b="+b);
        System.out.println("c="+c);
        System.out.println("n="+n);
           }
}
```

Output:

```
enter any no
8765
a=5
b=6
c=7
n=8
```

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

```
import java.util.*;
public class Main
{
        public static void main(String[] args)
        {
           double a,squareroot;
           Scanner sc=new Scanner(System.in);
           System.out.println("enter a number");
           a=sc.nextDouble();
          squareroot=Math.sqrt(a);
         System.out.println("squareroot="+squareroot);
        }
}
```

Output:

```
enter a number
25
squareroot=5.0
```

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)
        {
```

```
                Scanner sc=new Scanner(System.in);
                double cost_per_liter = 3.25;
                double selling_price_per_liter = 4.15;
                int milk_volume = 4;
               double total_cost = milk_volume * cost_per_liter;
               double total_volume = milk_volume + 1;
              double total_revenue = total_volume * selling_price_per_liter;
             double profit = total_revenue - total_cost;
             System.out.println("The profit for the milk vendor is:\n"+ profit);
        }
}
```

Output:

The profit for the milk vendor is:

7.75

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 fahrenheit, celsius;
           Scanner sc=new Scanner(System.in);
           System.out.println("enter tempreature");
          fahrenheit=sc.nextDouble();
           celsius = (fahrenheit - 32) * 5 / 9;
           System.out.println("Temperature in Celsius:\n"+celsius);
        }
}
```

Output:

enter tempreature
45
Temperature in Celsius:
7.222222222222222

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.Scanner;

public class Main

{
```

```
    public static void main(String[] args)
    {
        double x1,x2,y1,y2;
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter x-coordinate of first point (x1): ");
        x1 = sc.nextDouble();
        System.out.print("Enter y-coordinate of first point (y1): ");
        y1 = sc.nextDouble();
        System.out.print("Enter x-coordinate of second point (x2): ");
        x2 = sc.nextDouble();
        System.out.print("Enter y-coordinate of second point (y2): ");
        y2 = sc.nextDouble();
        double distance = Math.sqrt(Math.pow(x2 - x1, 2) + Math.pow(y2 - y1, 2));
        System.out.printf("The distance between the points is "+distance);
    }
}
```

Output:

Enter x-coordinate of first point (x1): 4

Enter y-coordinate of first point (y1): 6

Enter x-coordinate of second point (x2): 8

Enter y-coordinate of second point (y2): 3

The distance between the points is 5.0

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.*;
public class Main
{
        public static void main(String[] args)
        { import java.util.*;
            Scanner sc=new Scanner(System.in);
            System.out.println("Enter Rajesh's basic salary: ");
            double bs, gs, da, hra;
            bs=sc.nextDouble();
```

```
            da = 0.4 * bs;
        hra = 0.2 * bs;
        gs = bs + da + hra;
        System.out.println("bs="+bs);
        System.out.println("gs="+gs);
            }
}
```

Output:

```
Enter Rajesh's basic salary:
15000
bs=15000.0
gs=24000.0
```

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 cenmetres?

```
import java.util.*;
public class Main
{
        public static void main(String[] args)
        {
            Scanner sc=new Scanner(System.in);
            System.out.println("Enter the distance in kilometers ");
            double km, m, cm;
            km=sc.nextDouble();
            m= km * 1000;
             cm =km * 100000;
             System.out.println("m="+m);
            System.out.println("cm="+cm);
        }
}
```

Output:

```
Enter the distance in kilometers
400
m=400000.0
cm=4.0E7
```

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

```
import java.util.*;
public class Main
{
        public static void main(String[] args)
        {
            Scanner sc=new Scanner(System.in);
```

```
            System.out.println("Enter amount in dollars: ");
            double dollars, rupees;
        double exchange_rate = 74.5;
        dollars=sc.nextDouble();
        rupees = dollars * exchange_rate;
        System.out.println("dollars=" +dollars);
        System.out.println("rupees=" +rupees);
           }
}
```

Output:

```
Enter amount in dollars:
2
dollars=2.0
rupees=149.0
```

43. write a program to find kinetic energy and potential energy.

```
    import java.util.*;
public class Main
{
        public static void main(String[] args)
        {
           double m,v,g,h,KE,PE;
           Scanner sc=new Scanner(System.in);
                System.out.println("Enter m,v,g and 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);
        }
}
```

Output:

```
Enter m,v,g and h
6
5
8
10
Kinetic Energy=75.0
Potential Energy=480.0
```

44. write a c program to find arithmetic mean and harmonic mean.

```
import java.util.*;
public class Main
```

```
{
        public static void main(String[] args)
        {
           int a,b,AM,HM;
           Scanner sc=new Scanner(System.in);
                System.out.println("enter value of a and b");
                a=sc.nextInt();
                b=sc.nextInt();
                AM=(a+b)/2;
                HM=(a-b)/2;
                System.out.println("AM="+AM);
                System.out.println("HM="+HM);
        }
}
```

Output:

```
enter value of a and b
10
3
AM=6
HM=3
```

45. write a program to find the surface area of cylinder.

```
import java.util.*;
public class Main
{
        public static void main(String[] args)
        {
           double r,h,A,V;
           Scanner sc=new Scanner(System.in);
           System.out.println("Enter r and h:\n");
      r=sc.nextDouble();
      h=sc.nextDouble();
      A=(2*3.14*r*r)+(2*3.14*r*h);
      V=3.14*r*r*h;
                System.out.println(" Area"+A);
                System.out.println("Velocity"+V);
        }
}
```

Output:

```
Enter r and h:
7
7
 Area615.44
Velocity1077.02
```

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)
	{
		int u,a,t,v,s;
		Scanner sc=new Scanner(System.in);
		 System.out.println("enter u,a and t");
		 u=sc.nextInt();
		 a=sc.nextInt();
		 t=sc.nextInt();
		 v=u+(a*t);
		 s=u+(a*t*t);
		 System.out.println("v="+v);
		 System.out.println("s="+s);
	}
}
```

Output:

```
enter u,a and t
4
6
8
v=52
s=388
```

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)
	{
	   int a,b;
	   double P,A;
	   Scanner sc=new Scanner(System.in);
		 System.out.println("enter the value of a and b");

		 a=sc.nextInt();
		 b=sc.nextInt();
		 P=2*3.14*(a+b);
		 A=2*3.14*(a-b)*(a+b);
		 System.out.println("P="+P);
		 System.out.println("A="+A);
	}
}
```

Output:

```
enter the value of a and b
25
20
P=282.6
A=1413.0
```

48. write a c program to find the volume and surface area of cuboid .

```
import java.util.*;
public class Main
{
        public static void main(String[] args)
        {
           int l,b,h,SA,V;
           Scanner sc=new Scanner(System.in);
                System.out.println("enter the value of l,b and h");
                l=sc.nextInt();
                b=sc.nextInt();
                h=sc.nextInt();
                SA=2*(l*b+l*h+b*h);
                V=l*b*h;
                System.out.println("SA="+SA);
                System.out.println("V="+V);
        }
}
```

Output:

```
enter the value of l,b and h
10
6
9
SA=408
V=540
```

49. write a c program to convert the temperature from Celsius to Kelvin unit .

```
import java.util.*;
public class Main
{
        public static void main(String[] args)
        {
           int F,c;
           double k;
           Scanner sc=new Scanner(System.in);
           System.out.println("enter the value of F");
           F=sc.nextInt();
```

```
            c=(9/5)*(F-32);
            k=c+273.15;
            System.out.println("c="+c);
           System.out.println("k="+k);
        }
}
```

Output:

enter the value of F
45
c=13
k=286.15

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)
        {
           int n;
           Scanner sc=new Scanner(System.in);
           System.out.println("Enter a number (0-127):");
           n=sc.nextInt();
           char character=(char) n;
           System.out.println("the ASCIIA value of "+ n +"is :"+ character);
        }
}
```

Output:

Enter a number (0-127):

79

the ASCIIA value of 79is :O