\*JAVA Program\*

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

**package** classwork;

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

**public** **class** Program1 {

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

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

}

}

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

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

**package** classwork;

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

**public** **class** Program2 {

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

{

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

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

System.***out***.println("Enter the no");

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));

}

}

03. write a program to find he addition of two numbers

**package** classwork;

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

**public** **class** Program3 {

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

{

**int** a,b,c;

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

System.***out***.println("Enter 2 No");

a=sc.nextInt();

b=sc.nextInt();

c=a+b;

System.***out***.println("Addition of 5 no="+c);

}

}

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

**package** classwork;

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

**public** **class** Program4 {

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

{

**int** a,b,c,d;

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

System.***out***.println("Enter 2 No");

a=sc.nextInt();

b=sc.nextInt();

c=sc.nextInt();

d=a-b;

System.***out***.println("substraction of 2 no="+c);

} }

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

**package** classwork;

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

**public class** Program5 {

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

{

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

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

System.***out***.println("Enter 4 No");

a=sc.nextInt();

b=sc.nextInt();

c=sc.nextInt();

d=sc.nextInt();

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

System.***out***.println("multiplication="+e);

}

}

06. write a program to find addition of 5 numbers

**package** classwork;

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

**public** **class** Program6 {

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

{

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

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

System.***out***.println("Enter 5 No");

a=sc.nextInt();

b=sc.nextInt();

c=sc.nextInt();

d=sc.nextInt();

e=sc.nextInt();

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

System.***out***.println("Addition of 5 no="+f);

}

}

07. write a program to find the area of circle

**package** classwork;

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

**public** **class** Program7 {

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

{

**double** A,r;

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

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

r=sc.nextDouble();

A=3.14\*r\*r;

System.***out***.println("Area of Circle"+A);

} }

09. write the program to find the area of triangle

**package** classwork;

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

**public** **class** Program9 {

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

{

**double** A,b,h;

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

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

b=sc.nextDouble();

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

h=sc.nextDouble();

A=0.5\*b\*h;

System.***out***.println("Area of triangle"+A);

}

}

10. write the program to find area of rectangle

**package** classwork;

**import** java.util.Scanner;

**public** **class** program10 {

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

{

**double** A,l,b;

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

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

l=sc.nextDouble();

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

b=sc.nextDouble();

A=l\*b;

System.***out***.println("Area of rectangle"+A);

}

}

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

**package** classwork;

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

**public** **class** Program11 {

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

{

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

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

System.***out***.println("Enter the no");

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));

}

}

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

**package** classwork;

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

**public** **class** Program12 {

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

{

**int** a;

**double** b;

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

System.***out***.println("Enter the no");

a=sc.nextInt();

b=Math.*sqrt*(a);

System.***out***.println("Square root="+b);

}

}

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

**package** classwork;

**import** java.util.Scanner;

**public** **class** Program13 {

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

{

**double** A,side,perimeter;

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

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

side=sc.nextDouble();

A=side\*side;

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

perimeter=sc.nextDouble();

System.***out***.println("Are"+A);

}

}

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

**package** classwork;

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

**public** **class** Program14 {

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

{

Double area, radius,circumference;

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

System.***out***.println("Enter the radius of the circle: ");

radius = sc.nextDouble();

area=Math.***PI***\*radius\*radius;

circumference= 2 \* Math.***PI*** \*radius;

System.***out***.println("Area of the circle "+area);

System.***out***.println("Circumference of circle"+circumference);

}

}

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

**package** classwork;

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

**public** **class** Program15 {

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

{

Double area, radius;

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

System.***out***.println("Enter the radius of the sphere: ");

radius = sc.nextDouble();

area=4\*Math.***PI***\*radius\*radius;

System.***out***.println("surface of the sphere "+area);

}

}

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

**package** classwork;

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

**public** **class** Program16 {

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

{

Double radius , height,volume;

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

System.***out***.println("Enter the radius of the cylinder: ");

radius = sc.nextDouble();

System.***out***.println("Enter the height of the cylinder:");

height = sc.nextDouble();

volume =3.14\*radius\*radius\*height;

System.***out***.println("Volume of the cylindder:"+volume);

}

}

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

**package** classwork;

**import** java.util.Scanner;

**public** **class** Program17 {

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

{

**int** age ,day;

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

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

age=sc.nextInt();

day= age\*365;

System.***out***.println("your age in days:"+day);

}

}

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

**package** classwork;

**import** java.util.Scanner;

**public** **class** Program18 {

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

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

System.***out***.print("Enter your address: ");

String address = sc.nextLine();

System.***out***.println("Your address is: " + address);

}

}

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

**package** classwork;

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

**public** **class** Program19 {

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

{

Double a,b,c,s,area;

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

System.***out***.println("Enter the three sides ");

a = sc.nextDouble();

b = sc.nextDouble();

c = sc.nextDouble();

s=(a+b+c)/2;

area=Math.*sqrt*(s\*(s-a)\*(s-b)\*(s-c));

System.***out***.println("Area of the triangle"+area);

}

}

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

**package** classwork;

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

**public** **class** Program20 {

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

**int** marks[] = **new** **int**[5];

**int** total = 0;

**double** percentage;

Scanner sc = **new** Scanner(System.***in***); System.***out***.println("Enter marks for 5 subjects:");

**for** (**int** i = 0; i < 5; i++) {

System.***out***.print("Subject " + (i + 1) + ": ");

marks[i] = sc.nextInt();

total += marks[i];

}

percentage = total / 5

System.***out***.println("Total Marks = " + total);

System.***out***.println("Percentage = " + percentage +"%");

**if** (percentage >= 75) {

System.***out***.println("Class: Distinction");

} **else** **if** (percentage >= 60) {

System.***out***.println("Class: First Class");

} **else** **if** (percentage >= 50) {

System.***out***.println("Class: Second Class");

} **else** **if** (percentage >= 35) {

System.***out***.println("Class: Pass Class");

} **else** {

System.***out***.println("Class: Fail");

}

}

}

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

**package** classwork;

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

**public** **class** Program21 {

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

**double** principal, rate, time, si, ci;

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

System.***out***.print("Enter Principal amount: ");

principal = sc.nextDouble();

System.***out***.print("Enter Rate of interest (% per annum): ");

rate = sc.nextDouble();

System.***out***.print("Enter Time (in years): ");

time = sc.nextDouble();

si = (principal \* rate \* time) / 100;

ci = principal \* Math.*pow*((1 + rate / 100), time) - principal;

System.***out***.println("Simple Interest = " + si);

System.***out***.println("Compound Interest = " + ci);

}

}

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

**package** classwork;

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

**public** **class** Program22 {

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

**double** m, h, v, g = 9.8;

**double** potentialEnergy, kineticEnergy, totalEnergy;

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

System.***out***.print("Enter mass of the particle (in kg): ");

m = sc.nextDouble();

System.***out***.print("Enter height of the particle (in meters): ");

h = sc.nextDouble();

System.***out***.print("Enter velocity of the particle (in m/s): ");

v = sc.nextDouble();

potentialEnergy = m \* g \* h;

kineticEnergy = 0.5 \* m \* v \* v;

totalEnergy = potentialEnergy + kineticEnergy;

System.***out***.println("Potential Energy = " + potentialEnergy + " J");

System.***out***.println("Kinetic Energy = " + kineticEnergy + " J");

System.***out***.println("Total Mechanical Energy = " + totalEnergy + " J");

}

}

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)

**package** classwork;

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

**public** **class** Program23 {

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

{

**int** lr, br,hr;

Double Dl, Db,Dh,Wl,Wh;

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

System.***out***.println("Enter the length,breadth,hight of room");

lr=sc.nextInt();

br=sc.nextInt();

hr=sc.nextInt();

System.***out***.println("Enter the length Breadth hight of Door");

Dl=sc.nextDouble();

//Db=sc.nextDouble();

Dh=sc.nextDouble();

System.***out***.println("Enter the length hight of window");

Wl=sc.nextDouble();

Wh=sc.nextDouble();

**double** area;

area = 2\*(lr\*br)+2\*(br\*hr)+2\*(lr\*hr);

System.***out***.println("Surface area of the room"+area);

**double** areaD;

areaD = Dl\*Dh;

System.***out***.println("Area of the Door"+areaD);

**double** areaW;

areaW= Wl\*Wh;

System.***out***.println("Area of the window"+areaW);

**double** areaf;

areaf=lr\*br;

System.***out***.println("area of the floor"+areaf);

**double** Total=(area - areaD - areaW - areaf);

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

}

}

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

**package** classwork;

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

**public** **class** Program24 {

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

{

**double** bs,hra,ta,da,gs;

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

System.***out***.println("enter basic salary");

bs=sc.nextInt();

hra= 0.15 \* bs;

ta=0.20 \*bs;

da=0.25 \* bs;

gs=bs+hra+ta+da;

System.***out***.println("Hra "+hra);

System.***out***.println("Ta"+ta);

System.***out***.println("Da"+da);

System.***out***.println("Gross salary "+gs);

}

}

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

**package** classwork;

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

**public** **class** Program25 {

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

{

**int** a,b,temp;

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

System.***out***.println("Enter a and b");

a=sc.nextInt();

b=sc.nextInt();

temp=a;

a=b;

temp=b;

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

}

}

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

**package** classwork;

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

**public** **class** Program26 {

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

{

**int** a,b,c;

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

System.***out***.println("Enter a and b");

a=30;

b=20;

a=a+b;

b=a-b;

a=a-b;

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

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

}

}

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

**package** classwork;

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

**public** **class** Program27 {

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

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

System.***out***.print("Enter first number (a): ");

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

System.***out***.print("Enter second number (b): ");

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

a = a ^ b;

b = a ^ b;

a = a ^ b;

System.***out***.println("After swapping:");

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

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

}

}

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

**package** classwork;

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

**public** **class** Program28 {

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

{

Double liter,ml;

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

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

liter=sc.nextDouble();

ml=liter\*1000;

System.***out***.println("Ml="+ml);

}

}

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

**package** classwork;

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

**public** **class** Program29 {

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

{

Double km,m;

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

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

km=sc.nextDouble();

m=km\*1000;

System.***out***.println("m="+m);

}

}

30. write a program to perform conversion between H:M:S to seconds

**package** classwork;

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

**public** **class** Program30 {

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

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

System.***out***.print("Enter hours: ");

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

System.***out***.print("Enter minutes: ");

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

System.***out***.print("Enter seconds: ");

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

**int** totalSeconds = hours \* 3600 + minutes \* 60 + seconds;

System.***out***.println("Total seconds = " + totalSeconds);

}

}

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

**package** classwork;

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

**public** **class** Program31 {

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

{

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

System.***out***.print("Enter volume in millilitres: ");

**double** millilitres = sc.nextDouble();

**double** litres = millilitres / 1000;

System.***out***.println("Equivalent volume in litres: " + litres);

}

}

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

**package** classwork;

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

**public** **class** Program32 {

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

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

System.***out***.print("Enter distance in metres: ");

**double** metres = sc.nextDouble();

**double** kilometres = metres /1000;

System.***out***.println("Equivalent distance in kilometres: " + kilometres);

}

}

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

**package** classwork;

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

**public** **class** Program33 {

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

{

**int** seconds;

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

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

seconds=sc.nextInt();

**int** h=seconds/3600;

**int** m=seconds/60;

seconds=seconds %60;

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

}

}

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

**package** classwork;

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

**public** **class** Program34 {

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

{

**int** dividend,divisor,quotient,remainder;

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

System.***out***.println("Enter the divident & divisor");

dividend=sc.nextInt();

divisor=sc.nextInt();

quotient=dividend/divisor;

remainder=dividend % divisor;

System.***out***.println("Quotient:"+quotient);

System.***out***.println("Remainder:"+remainder);

}

}

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

**package** classwork;

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

**public** **class** Program35 {

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

{

**int** n,a,b,c,d,reversed;

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

System.***out***.println("Enter the four digit number");

n=sc.nextInt();

a=n%10;

n=n/10;

b=n%10;

n=n/10;

c=n%10;

n=n/10;

d=n%10;

n=n/10;

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

// reversed=n1\*1000+n2\*100+n3\*10+n4;

// System.out.println("Reversed number:"+reversed);

}

}

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

**package** classwork;

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

**public** **class** Program36 {

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

{

**int** a;

**double** b;

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

System.***out***.println("Enter the no");

a=sc.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?

**package** classwork;

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

**public** **class** Program37 {

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

{

**double** costPricePerLitre = 3.25;

**double** sellingPricePerLitre = 4.15;

**int** milkLitres = 100;

**int** waterLitres = 25;

**int** totalLitresSold = milkLitres + waterLitres;

**double** totalCostPrice = milkLitres \* costPricePerLitre;

**double** totalSellingPrice = totalLitresSold \* sellingPricePerLitre;

**double** profit = totalSellingPrice - totalCostPrice;

**double** gainPercent = (profit / totalCostPrice) \* 100;

System.***out***.println("Total Cost Price: ₹" + totalCostPrice);

System.***out***.println("Total Selling Price: ₹" + totalSellingPrice);

System.***out***.println("Profit: ₹" + profit);

System.***out***.printf("Gain Percentage: %.2f%%\n",gainPercent);

}

}

38. The temperature of the city is input through the keyboard in Fahrenheit. Write a program to convert into Celsius?

**package** classwork;

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

**public** **class** Program38 {

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

{

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

System.***out***.print("Enter temperature in Fahrenheit: ");

**double** fahrenheit = sc.nextDouble();

**double** celsius = (fahrenheit - 32) \* 5 / 9;

System.***out***.println("Temperature in Celsius: " + celsius);

}

}

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

**package** classwork;

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

**public** **class** Program39 {

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

{

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

System.***out***.print("Enter x1: ");

**double** x1 = sc.nextDouble();

System.***out***.print("Enter y1: ");

**double** y1 = sc.nextDouble();

System.***out***.print("Enter x2: ");

**double** x2 = sc.nextDouble();

System.***out***.print("Enter y2: ");

**double** y2 = sc.nextDouble();

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

System.***out***.println("Distance between the two points: " + 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?

**package** classwork;

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

**public** **class** Program40 {

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

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

System.***out***.print("Enter Rajesh's basic salary: ");

**double** bs= sc.nextDouble();

**double** da = 0.40 \* bs;

**double** hra = 0.20 \* bs;

**double** gs= bs + da + hra;

System.***out***.println("Gross Salary of Rajesh is: " + 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?

**package** classwork;

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

**public** **class** Program41 {

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

{

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

System.***out***.println("Enter the distance bet two cities in kl");

**double** kilometers=sc.nextDouble();

**double** meters=kilometers\*1000;

**double** centimeters=kilometers\*100000;

System.***out***.println("Distence in meters"+meters);

System.***out***.println("Distance in centimeters:"+centimeters);

}

}

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

**package** classwork;

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

**public** **class** Program42 {

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

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

System.***out***.print("Enter amount in dollars: ");

**double** dollars = scanner.nextDouble();

**double** conversionRate = 84.44;

**double** rupees = dollars \* conversionRate;

System.***out***.println("Equivalent amount in Indian Rupees: ₹" + rupees);

}

}

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

**package** classwork;

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

**public** **class** Program43 {

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

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

System.***out***.print("Enter mass (kg): ");

**double** mass = sc.nextDouble();

System.***out***.print("Enter velocity (m/s): ");

**double** velocity = sc.nextDouble();

**double** kineticEnergy = 0.5 \* mass \* velocity \* velocity;

System.***out***.println("Kinetic Energy = " + kineticEnergy + " Joules");

System.***out***.print("Enter height (m): ");

**double** height = sc.nextDouble();

**double** potentialEnergy = mass \* 9.8 \* height;

System.***out***.println("Potential Energy = " + potentialEnergy + " Joules");

}

}

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

**package** classwork;

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

**public** **class** Program44 {

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

{

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

System.***out***.print("Enter first number: ");

**double** a = sc.nextDouble();

System.***out***.print("Enter second number: ");

**double** b = sc.nextDouble();

**double** arithmeticMean = (a + b) / 2;

**double** harmonicMean = (2 \* a \* b) / (a + b) ; System.***out***.println("Arithmetic Mean = " + arithmeticMean);

System.***out***.println("Harmonic Mean = " + harmonicMean);

}

}

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

**package** classwork;

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

**public** **class** Program45 {

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

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

System.***out***.print("Enter radius of the cylinder: ");

**double** radius = sc.nextDouble();

System.***out***.print("Enter height of the cylinder: ");

**double** height = sc.nextDouble();

**double** surfaceArea = 2 \* Math.***PI*** \* radius \* (radius + height); System.***out***.println("Surface Area of the Cylinder = " + surfaceArea + " square units");

}

}

46. write a program to find velocity and distance by using Newton's law

**package** classwork;

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

**public** **class** Program46 {

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

{

**int** a,t,u;

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

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

u=sc.nextInt();

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

a=sc.nextInt();

System.***out***.println("enter the time in seconds");

t=sc.nextInt();

**double** v=u+(a\*t);

**double** distance=(u\*t)+(0.5\*a\*t\*t);

System.***out***.println("velocity"+v);

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

}

}

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

**package** classwork;

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

**import** java.util.Scanner;

**public** **class** Program47 {

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

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

System.***out***.print("Enter outer radius (R): ");

**double** R = sc.nextDouble();

System.***out***.print("Enter inner radius (r): ");

**double** r = sc.nextDouble();

**double** area = 3.14 \* (R \* R - r \* r);

**double** perimeter = 2 \* 3.14 \* (R + r);

System.***out***.println("Area of ring = " + area);

System.***out***.println("Perimeter of ring = " + perimeter);

}

}

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

**package** classwork;

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

**public** **class** Program48 {

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

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

System.***out***.print("Enter length: ");

**double** length = sc.nextDouble();

System.***out***.print("Enter width: ");

**double** width = sc.nextDouble();

System.***out***.print("Enter height: ");

**double** height = sc.nextDouble();

**double** volume = length \* width \* height;

**double** surfaceArea = 2 \* (length \* width + length \* height + width \* height);

System.***out***.println("Volume of cuboid = " + volume);

System.***out***.println("Surface Area of cuboid = " + surfaceArea);

}

}

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

**package** classwork;

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

**public** **class** Program49 {

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

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

System.***out***.print("Enter temperature in Celsius: ");

**double** celsius = sc.nextDouble();

**double** kelvin = celsius + 273.15;

System.***out***.println("Temperature in Kelvin = " + kelvin);

}

}

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

**package** classwork;

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

**public** **class** Program50 {

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

{

**char** ch;

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

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

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

System.***out***.println("ASCII"+(**int**)ch);

}

}

\*JAVA Program\*

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

**package** classwork;

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

**public** **class** Program1 {

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

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

}

}

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

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

**package** classwork;

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

**public** **class** Program2 {

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

{

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

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

System.***out***.println("Enter the no");

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));

}

}

}

}