Unit -1

Q. Sample Program

**package** Program;

**import** java.util.Scanner;

**public** **class** Add5 {

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

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

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

System.***out***.println("Enter 5 number");

a=sc.nextInt();

b=sc.nextInt();

c=sc.nextInt();

d=sc.nextInt();

e=sc.nextInt();

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

System.***out***.println("Add="+f);

}

}

O/P :-

Enter 5 number

1

2

3

4

5

Add=15

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

**package** Program;

**public** **class** Prog1 {

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

{

System.***out***.println("Welcome to c language");

}

}

O/P :-

Welcome to c language

2) Write a program to multiply and divide two numbers and print them in the form of equation (4\*3=12 8/4=2)?

**package** Program;

**import** java.util.Scanner;

**public** **class** Prog2 {

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

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

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

System.***out***.println("Enter the 4 number");

a=sc.nextInt();

b=sc.nextInt();

c=sc.nextInt();

d=sc.nextInt();

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

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

}

}

O/P :-

Enter the 4 number

4

3

8

4

4\*3=7

8/4=2.0

3) write a program to find he addition of two numbers .

**package** Program;

**import** java.util.Scanner;

**public** **class** Prog3 {

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

**int** a,b,c;

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

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

a=sc.nextInt();

b=sc.nextInt();

c=a+b;

System.***out***.println("Addition of two numbers = "+c);

}

}

O/P:-

Enter the number

12

3

Addition of two numbers = 15

4) write a program to find this subtraction of three numbers.

**package** Program;

**import** java.util.Scanner;

**public** **class** Prog4 {

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

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

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

System.***out***.println("Enter three number");

a=sc.nextInt();

b=sc.nextInt();

c=sc.nextInt();

d=a-b-c;

System.***out***.println("Subtraction of three numbers = "+d);

}

}

O/P :-

Enter three number

34

30

2

Subtraction of three numbers = 2

5) write a program to find the multiplication of four numbers.

**package** Program;

**import** java.util.Scanner;

**public** **class** Prog5 {

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

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

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

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

a=sc.nextInt();

b=sc.nextInt();

c=sc.nextInt();

d=sc.nextInt();

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

System.***out***.println("Multiplication of four numbers = "+e);

}

}

O/P :-

Enter four number

1

3

4

5

Multiplication of four numbers = 60

6) write a program to find addition of 5 numbers.

**package** Program;

**import** java.util.Scanner;

**public** **class** Prog6 {

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

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

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

System.***out***.println("Enter 5 number");

a=sc.nextInt();

b=sc.nextInt();

c=sc.nextInt();

d=sc.nextInt();

e=sc.nextInt();

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

System.***out***.println("Add="+f);

}

}

O/P :-

Enter 5 number

12

2

3

4

5

Add=26

7) write a program to find the area of circle.

**package** Program;

**import** java.util.Scanner;

**public** **class** Prog7 {

**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; //Area=pi\*r^2;

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

}

}

O/P :-

Enter r

12

Area of Circle = 452.15999999999997

9) write the program to find the area of triangle.

**package** Program;

**import** java.util.Scanner;

**public** **class** Prog9 {

**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);

}

}

O/P :-

Enter b

12

Enter h

11

Area of Triangle = 66.0

10) write the program to find area of rectangle.

**package** Program;

**import** java.util.Scanner;

**public** **class** Prog10 {

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

**double** A,l,w;

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

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

l=sc.nextDouble();

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

w=sc.nextDouble();

A=l\*w;

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

}

}

O/P :-

Enter l

12

Enter w

10

Area of Rectangle = 120.0

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

**package** Program;

**import** java.util.Scanner;

**public** **class** Prog11 {

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

**int** a,b,c;

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

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

a=sc.nextInt();

b=a\*a;

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

c=a\*a\*a;

System.***out***.println("Square of number = "+c);

}

}

O/P :-

Enter the number

2

Square of number = 4

Square of number = 8

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

**package** Program;

**import** java.util.Scanner;

**public** **class** Prog12 {

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

Double a,b;

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

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

a=sc.nextDouble();

b=Math.*sqrt*(a);

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

}

}

O/P :-

Enter the number

12

Square of number = 3.4641016151377544

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

**package** Program;

**import** java.util.Scanner;

**public** **class** Prog13 {

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

**double** A,side,perimeter;

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

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

side=sc.nextDouble();

A=side\*side;

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

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

perimeter=sc.nextDouble();

A=4\*side;

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

}

}

O/P :-

Enter side

2

Area of Square = 4.0

Enter Perimeter

3

Area of Perimeter = 8.0

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

**package** Program;

**import** java.util.Scanner;

**public** **class** Prog14 {

**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 Cricle = " +A);

A=2\*3.14\*r;

System.***out***.println("Circumference of Cricle= " +A);

}

}

O/P :-

Enter r

4

Area of Cricle = 50.24

Circumference of Cricle= 25.12

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

**package** Program;

**import** java.util.Scanner;

**public** **class** Prog15 {

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

**double** A,r;

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

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

r=sc.nextDouble();

A=4\*Math.***PI***\*r\*r;

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

}

}

O/P:-

Enter r

14

Area of Sphere = 2463.0086404143976

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

**package** Program;

**import** java.util.Scanner;

**public** **class** Prog16 {

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

**double** A,r,h;

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

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

r=sc.nextDouble();

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

h=sc.nextDouble();

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

System.***out***.println("Volume of cylinder= " +A);

}

}

O/P : -

Enter r

4

Enter h

3

Volume of cylinder= 150.72

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

**package** Program;

**import** java.util.Scanner;

**public** **class** Prog17 {

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

**int** days,age;

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

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

age=sc.nextInt();

days=age\*365;

System.***out***.println("Your age in days is = "+ days);

}

}

O/P :-

Enter age

20

Your age in days is = 7300

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

**package** Program;

**import** java.util.Scanner;

**public** **class** Prog18 {

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

String addr;

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

System.***out***.println("Enter your Address");

addr=sc.nextLine();

System.***out***.println("Your Address are = "+ addr);

}

}

O/P :-

Enter your Address

chambli

Your Address are = chambli

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

**package** Program;

**import** java.util.Scanner;

**public** **class** Prog19 {

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

**int** a,b,c,s;

**double** area;

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

System.***out***.println("Enter side a");

a=sc.nextInt();

System.***out***.println("Enter side b");

b=sc.nextInt();

System.***out***.println("Enter side c");

c=sc.nextInt();

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

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

System.***out***.println("The area of Triangle is "+area);

}

}

O/P :-

Enter side a

12

Enter side b

14

Enter side c

10

The area of Triangle is 58.787753826796276

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

**package** Program;

**import** java.util.Scanner;

**public** **class** Prog20 {

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

{

**int** sub1,sub2,sub3,sub4,sub5,total;

Double per;

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

System.***out***.println("Enter the mark for subject 1");

sub1=sc.nextInt();

System.***out***.println("Enter the mark for subject 2");

sub2=sc.nextInt();

System.***out***.println("Enter the mark for subject 3");

sub3=sc.nextInt();

System.***out***.println("Enter the mark for subject 4");

sub4=sc.nextInt();

System.***out***.println("Enter the mark for subject 5");

sub5=sc.nextInt();

total=sub1+sub2+sub3+sub4+sub5;

per=total/5.0;

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

System.***out***.println("Percentage "+per);

}

}

O/P :-

Enter the mark for subject 1

89

Enter the mark for subject 2

76

Enter the mark for subject 3

65

Enter the mark for subject 4

78

Enter the mark for subject 5

87

Total Mark 395

Percentage 79.0

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

**package** Program;

**import** java.util.Scanner;

**public** **class** Prog21 {

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

{

Double p,r,t,simple\_interest,compound\_interest;

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

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

p=sc.nextDouble();

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

r=sc.nextDouble();

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

t=sc.nextDouble();

simple\_interest=(p\*r\*t)/100;

//compound\_interest=p\*Math.pow(1+r/100)^t-p;

System.***out***.println("Simple Interest "+simple\_interest);

//System.out.println("Compound Interest "+compound\_interest);

}

}

O/P :-

Enter the principal

456

Enter the rate

3

Enter the time

45

Simple Interest 615.6

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

**package** Program;

**import** java.util.Scanner;

**public** **class** Prog22 {

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

{

Double m,h,v,g,potentialEnergy,kineticEnergy,totalEnergy;

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

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

m = scanner.nextDouble();

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

h = scanner.nextDouble();

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

v = scanner.nextDouble();

g = 9.8;

potentialEnergy = m \* g \* h;

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

totalEnergy = potentialEnergy + kineticEnergy;

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

}

}

O/P:-

Enter mass (kg): 2

Enter height (m): 5

Enter velocity (m/s): 3

Total Mechanical Energy = 107.0 joules

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** Program;

**import** java.util.Scanner;

**public** **class** Prog23 {

**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();

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);

}}

O/P:-

Enter the length,breadth,hight of room

6

5

3

Enter the length Breadth hight of Door

2

1

Enter the length hight of window

1.5

1

Surface area of the room126.0

Area of the Door2.0

Area of the window1.5

area of the floor30.0

Total 92.5

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

**package** Program;

**import** java.util.Scanner;

**public** **class** Prog24 {

**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=0.15\*bs;

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

ta=0.25\*bs;

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

da=0.20\*bs;

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

gs=bs+hra+ta+da;

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

}}

O/P:- Enter the basic Salary

45000

Hra = 6750.0

Ta = 11250.0

Da = 9000.0

gross salary 72000.0

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

**package** Program;

**import** java.util.Scanner;

**public** **class** Prog25 {

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

**int** a,b,c;

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

System.***out***.println("Ente the two number");

a=sc.nextInt();

b=sc.nextInt();

c=a;

a=b;

b=c;

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

}

}

O/P :-

Ente the two number

20

10

a=10 b=20

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

**package** Program;

**import** java.util.Scanner;

**public** **class** Prog26 {

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

**int** a,b;

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

System.***out***.println("Ente the two number");

a=sc.nextInt(); //a=10

b=sc.nextInt(); //b=20

a=a+b; // a=10+20=30

b=a-b; //b=30-20=10

a=a-b; //a=30-10=20

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

}

}

O/P :-

Ente the two number

30

10

a=10 b=30

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

**package** Program;

**import** java.util.Scanner;

**public** **class** Prog27 {

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

**int** a,b,c;

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

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

a=sc.nextInt();

b=sc.nextInt();

a=a^b;

b=a^b;

a=a^b;

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

}

}

O/P :-

Enter the two number

40

20

a=20 b=40

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

**package** Program;

**import** java.util.Scanner;

**public** **class** Prog28 {

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

**double** liter,ml;

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

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

liter=sc.nextDouble();

ml=liter\*1000;

System.***out***.println("Millilitres "+ml);

}

}

O/P:-

Ente the liter

20

Millilitres 20000.0

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

**package** Program;

**import** java.util.Scanner;

**public** **class** Prog29 {

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

**double** metres,km;

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

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

km=sc.nextDouble();

metres=km\*1000;

System.***out***.println("Metres "+metres);

}

}

O/P :-

Enter the Kilometres

75

Metres 75000.0

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

**package** Program;

**import** java.util.Scanner;

**public** **class** Prog30 {

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

**int** h,m,s,sec;

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

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

h=sc.nextInt();

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

m=sc.nextInt();

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

s=sc.nextInt();

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

System.***out***.println("Sencond : "+sec);

}

}

O/P :-

Enter the hours

1

Enter the minutes

30

Enter the seconds

15

Sencond : 5415

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

**package** Program;

**import** java.util.Scanner;

**public** **class** Prog31 {

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

**int** l,ml;

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

System.***out***.println("Ente the Metres");

ml=sc.nextInt();

l=ml/1000;

ml=ml%1000;

System.***out***.println(l+"liter"+ml+"ml");

}

}

O/P :-

Ente the Metres

7560

7liter560ml

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

**package** Program;

**import** java.util.Scanner;

**public** **class** Prog32 {

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

Double metres,km;

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

System.***out***.println("Ente the Metres");

metres=sc.nextDouble();

km=metres/1000;

System.***out***.println("Kilometres "+km);

}

}

O/P :-

Ente the Metres

768

Kilometres 0.768

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

**package** Program;

**import** java.util.Scanner;

**public** **class** Prog33 {

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

**int** h,m,s;

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

System.***out***.println("Ente the Second");

s=sc.nextInt();

h=s/3600;

m=(s%3600)/60;

s=s%60;

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

}

}

O/P :-

Ente the Second

3672

1:1:12

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

**package** Program;

**import** java.util.Scanner;

**public** **class** Prog34 {

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

{

**int** divisor,dividend,rem,qu;

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

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

divisor=sc.nextInt();

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

dividend=sc.nextInt();

qu=dividend/divisor;

rem=dividend%divisor;

System.***out***.println("Quotient "+qu);

System.***out***.println("Remainder "+rem);

}

}

O/P:-

Enter the number Divisor

12

Enter the number Dividend

68

Quotient 5

Remainder 8

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

**package** Program;

**import** java.util.Scanner;

**public** **class** Prog35 {

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

{

**int** n,n1,n2,n3;

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

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

n=sc.nextInt();

n1=n%10;

n=n/10;

n2=n%10;

n=n/10;

n3=n%10;

n=n/10;

System.***out***.println(n1+""+n2+""+n3+""+n);

}

}

O/P :-

Enter the number

1234

4321

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

**package** Program;

**import** java.util.Scanner;

**public** **class** Prog36 {

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

{

**int** n;

**double** sr;

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

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

n=sc.nextInt();

sr=Math.*sqrt*(n);

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

}

}

O/P :-

Enter the number

4

Square root = 2.0

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?

**package** Program;

**import** java.util.Scanner;

**public** **class** Prog37 {

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

Double milk,total,a;

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

System.***out***.println("Enter milk in liter");

milk=sc.nextDouble();

total=milk+(milk/4);

a=(total\*4.15)-(milk\*60.25);

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

}

}

O/P :-

Enter milk in liter

100

profit =6543.75

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

**package** Program;

**import** java.util.Scanner;

**public** **class** Prog38 {

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

{

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

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

Double fahrenheit=sc.nextDouble();

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

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

}

}

O/P :-

Enter temperature in Fahrenheit:

2456

Temperature in Celsiuss1346.6666666666667

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

**package** Program;

**import** java.util.Scanner;

**public** **class** Prog39 {

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

{

**int** x1,x2,y1,y2;

Double distance;

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

System.***out***.println("Enter x1");

x1=sc.nextInt();

System.***out***.println("Enter y1");

y1=sc.nextInt();

System.***out***.println("Enter x2");

x2=sc.nextInt();

System.***out***.println("Enter y2");

y2=sc.nextInt();

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

System.***out***.println("Diatance between the two points :"+distance);

}

}

O/P :-

Enter x1

12

Enter y1

14

Enter x2

23

Enter y2

24

Distance between the two points :14.866068747

40)

**package** Program;

**import** java.util.Scanner;

**public** **class** TotalAmount {

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

{

**int** Rs,fiveh,twoh,oneh,fifty,twenty,ten,five,two,one,total;

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

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

Rs=sc.nextInt();

total=Rs;

fiveh=Rs/500;

Rs=Rs%500;

System.***out***.println("500 \*"+fiveh+" = "+(500\*fiveh));

twoh=Rs/200;

Rs=Rs%200;

System.***out***.println("200 \*"+twoh+" = "+(200\*twoh));

oneh=Rs/100;

Rs=Rs%100;

System.***out***.println("100 \*"+oneh+" = "+(100\*oneh));

fifty=Rs/50;

Rs=Rs%50;

System.***out***.println("50 \*"+fifty+" = "+(50\*fifty));

twenty=Rs/20;

Rs=Rs%20;

System.***out***.println("20 \*"+twenty+" = "+(20\*twenty));

ten=Rs/10;

Rs=Rs%10;

System.***out***.println("10 \*"+ten+" = "+(10\*ten));

five=Rs/5;

Rs=Rs%5;

System.***out***.println("5 \*"+five+" = "+(5\*five));

two=Rs/2;

Rs=Rs%2;

System.***out***.println("2 \*"+two+" = "+(2\*two));

one=Rs/1;

Rs=Rs%1;

System.***out***.println("1 \*"+one+" = "+(1\*one));

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

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

}

}

O/P :-

Enter the Amount

8888

500 \*17 = 8500

200 \*1 = 200

100 \*1 = 100

50 \*1 = 50

20 \*1 = 20

10 \*1 = 10

5 \*1 = 5

2 \*1 = 2

1 \*1 = 1

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Total = 8888

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** Program;

**import** java.util.Scanner;

**public** **class** Prog41 {

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

{

Double metres,cen,km;

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

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

km=sc.nextDouble();

metres=km\*1000;

cen=km\*100000;

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

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

}

}

O/P :-

Enter the distance between two cities in kl

2560

Distance in meters:2560000.0

Distance in Centimerter:2.56E8

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

**package** Program;

**import** java.util.Scanner;

**public** **class** Prog42 {

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

{

Double dollers,rupees,conversionRate;

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

System.***out***.println("Enter the amount in dollers :");

dollers=sc.nextDouble();

conversionRate=83.00;

rupees=dollers\*conversionRate;

System.***out***.println("Equivalent amount in indian rupees:"+rupees);

}

}

O/P :-

Enter the amount in dollers :

68

Equivalent amount in indian rupees:5644.0

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

**package** Program;

**import** java.util.Scanner;

**public** **class** Prog43 {

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

{

Double m,v,h,g,KineticEnergy,potentialEnergy;

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

System.***out***.println("Enter the mass( in kg):");

m=sc.nextDouble();

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

v=sc.nextDouble();

System.***out***.println("Enter the height( in meters):");

h=sc.nextDouble();

g=9.8; //gravity are constants

KineticEnergy=0.5\*m\*v\*v;

potentialEnergy=m\*g\*h;

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

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

}

}

O/P :-

Enter the mass( in kg):

2

Enter the velocity( in m/s):

3

Enter the height( in meters):

4

Kinetic Energy =9.0

Potential Energy =78.4

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

**package** Program;

**import** java.util.Scanner;

**public** **class** Prog44 {

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

{

Double x1,x2,x3,AM,HM;

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

System.***out***.println("Enter the First numbers");

x1=sc.nextDouble();

System.***out***.println("Enter the second numbers");

x2=sc.nextDouble();

System.***out***.println("Enter the third numbers");

x3=sc.nextDouble();

AM=(x1+x2+x3)/3;

HM=3/((1.0/x1)+(1.0/x2)+(1.0/x3));

System.***out***.println("Arithmetic Mean "+AM);

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

}

}

O/P :-

Enter the First numbers

4

Enter the second numbers

5

Enter the third numbers

10

Arithmetic Mean 6.333333333333333

Harmonic Mean 5.454545454545454

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

**package** Program;

**import** java.util.Scanner;

**public** **class** Prog45 {

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

{

Double r,h,surface\_Area;

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

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

r=sc.nextDouble();

System.***out***.println("Enter the height of a circle");

h=sc.nextDouble();

surface\_Area=2\*3.14\*r\*h + 2\*3.14\*r\*r;

System.***out***.println("Surface Area of the Cylinder ="+surface\_Area+ "cm^2");

}

}

O/P :-

Enter the radius of circle

5

Enter the height of a circle

10

Surface Area of the Cylinder =471.0cm^2

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

**package** Program;

**import** java.util.Scanner;

**public** **class** Prog46 {

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

{

Double v,u,a,t,distance;

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

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

u=sc.nextDouble();

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

a=sc.nextDouble();

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

t=sc.nextDouble();

v=u+(a\*t);

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

System.***out***.println("Velocity ="+v);

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

}

}

O/P :-

Enter the initial velocity

5

Enter the Acceleration velocity

2

Enter the time in seconds

4

Velocity =13.0

Distance =36.0

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

**package** Program;

**import** java.util.Scanner;

**public** **class** Prog47 {

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

{

Double R,r,area,perimeter;

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

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

R=sc.nextDouble();

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

r=sc.nextDouble();

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

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

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

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

}

}

O/P :-

Enter the outer radius (R) :

6

Enter the inner radius (r) :

3

Area of the Ring =84.78

Perimeter of the Ring =56.52

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

**package** Program;

**import** java.util.Scanner;

**public** **class** Prog48 {

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

{

Double l,w,h,V,SA;

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

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

l=sc.nextDouble();

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

w=sc.nextDouble();

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

h=sc.nextDouble();

V=l\*w\*h;

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

System.***out***.println("Volume of Cuboid = "+V);

System.***out***.println("Surface Area of Cuboid = "+SA);

}

}

O/P :-

Enter length

5

Enter width

3

Enter height

2

Volume of Cuboid = 30.0

Surface Area of Cuboid = 62.0

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

**package** Program;

**import** java.util.Scanner;

**public** **class** Prog49 {

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

{

Double celsius,kelvin;

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

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

celsius=sc.nextDouble();

kelvin=celsius+273.15;

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

}

}

O/P :-

Enter temperature in Celsius

25

Temperature in Kelvin = 298.15

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

**package** Program;

**import** java.util.Scanner;

**public** **class** Prog50 {

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

{

**char** a;

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

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

a=sc.next().charAt(0); //accepting a character from user

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

}

}

O/P :-

Enter the Character

T

ASCII=84