Day-1

Level-1

1. Age

public class programOne{

public static void main(String[] args){

int birthYear=2000,currentYear=2024;

int age=currentYear-birthYear;

System.out.println("Age of Henry: "+age);

}

}

1. Average mark

public class programtwo{

public static void main(String[] args){

int maths=94,physics=95,chemistry=96;

int average=(maths+physics+chemistry)/3;

System.out.println("Average marks: "+average);

}

}

1. Miles conversion

public class programthree{

public static void main(String[] args){

double distinkm=10.8,conv=1.6;

double result=distinkm\*conv;

System.out.println("The distance in miles: "+result +" miles.");

}

}

1. Profit

public class programfour{

public static void main(String[] args){

double cp=129,sp=191;

double profit=sp-cp;

double profitpercentage=profit/cp\*100;

System.out.println("The profit is "+profit+" and profit percentage is"+profitpercentage);

}

}

1. Pens

public class programfive{

public static void main(String[] args){

int pens=14,students=3;

int penperstudent=pens/students;

int remainingPen=pens%students;

System.out.println("Pen per student: "+penperstudent+" undistributed pens: "+remainingPen);

}

}

1. Fees

public class programsix{

public static void main(String[] args){

int fee=125000,discountpercent=10;

int discount=discountpercent\*fee/100;

int feepaid=fee-discount;

System.out.println("Discount amount: "+discount+" Discounted fee: "+feepaid);

}

}

1. Volume

public class programseven{

public static void main(String[] args){

double radius=6378;

double milec=1.6\*6378;

double volume=4/3\*Math.PI\*(Math.pow(radius,3));

double volumem=4/3\*Math.PI\*(Math.pow(milec,3));

System.out.println("Volume of earth in cubic km: "+volume+" Volume of earth in cubic miles: "+volumem);

}

}

1. User input distance conversion

import java.util.Scanner;

public class programeight{

public static void main(String[] args){

Scanner input=new Scanner(System.in);

System.out.print("Enter dist in km: ");

double km=input.nextDouble();

System.out.println("The distance in miles: "+km\*1.6);

input.close();

}

}

1. User input fees

import java.util.Scanner;

public class programnine{

public static void main(String[] args){

Scanner input=new Scanner(System.in);

System.out.print("Fees: ");

int fee=input.nextInt();

System.out.print("Discount percent: ");

int discountpercent=input.nextInt();

int discountamt=discountpercent\*fee/100;

int discountfee=fee-discountamt;

System.out.println("Discount: "+discountamt+ " Discount fee: "+discountfee);

input.close();

}

}

1. Height

import java.util.Scanner;

public class programten{

public static void main(String[] args){

double inch=2.54,foot=12;

Scanner input= new Scanner(System.in);

System.out.print("Height in cm: ");

double height=input.nextDouble();

double heightinch=height/inch;

double heightfeet=heightinch/foot;

System.out.println("Height in feet: "+heightfeet+"Height in inches: "+heightinch);

}

}

1. DMAS

import java.util.Scanner;

public class program11{

public static void main(String[] args){

Scanner input=new Scanner(System.in);

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

float number1=input.nextFloat();

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

float number2=input.nextFloat();

float addition=number1+number2;

float subtraction=number1-number2;

float multiplication=number1\*number2;

float division=number1/number2;

System.out.println("Addition:"+addition+" Subtraction:"+subtraction+" Multiplication:"+multiplication+" Division:"+division);

input.close();

}

}

1. Area of triangle

import java.util.Scanner;

public class program12{

public static void main(String[] args){

Scanner input=new Scanner(System.in);

System.out.print("Enter base: ");

float b=input.nextFloat();

float bi=b/2.54f;

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

float h=input.nextFloat();

float hi=h/2.54f;

float area=0.5f\*b\*h;

float areai=0.5f\*bi\*hi;

System.out.println("The area in sq cms is "+area+" and in sq inches is "+areai);

input.close();

}

}

1. Side of the square

import java.util.Scanner;

public class program13{

public static void main(String[] args){

Scanner input=new Scanner(System.in);

System.out.print("Enter the perimeter of the square: ");

double perimeter=input.nextDouble();

System.out.println("The side of the square: "+perimeter/4);

input.close();

}

}

1. Distance in yards and miles

import java.util.Scanner;

public class program14{

public static void main(String[] args){

Scanner input=new Scanner(System.in);

System.out.print("Enter the distance in feet: ");

double feet=input.nextDouble();

double yard=feet/3;

double mile=yard/1760;

System.out.println("Distance in yards: "+yard+"\nDistance in miles: "+mile);

input.close();

}

}

1. Total price

import java.util.Scanner;

public class program15{

public static void main(String[] args){

Scanner input=new Scanner(System.in);

System.out.print("Enter the unit price: ");

double unitPrice=input.nextDouble();

System.out.print("Enter the quantity: ");

double qty=input.nextDouble();

double totalPrice=unitPrice\*qty;

System.out.println("Total price: "+totalPrice);

input.close();

}

}

1. Maximum number of handshakes

import java.util.Scanner;

public class program16{

public static void main(String[] args){

Scanner input=new Scanner(System.in);

System.out.print("Enter the num of students: ");

int numberOfStudents=input.nextInt();

int maxNumOfHandshakes=(numberOfStudents\*(numberOfStudents-1))/2;

System.out.println("Max num of handshakes: "+maxNumOfHandshakes);

input.close();

}

}

Level-2

1. Quotient and remainder

import java.util.Scanner;

public class prob1{

public static void main(String[] args){

Scanner input=new Scanner(System.in);

System.out.print("Enter num1: ");

int num1=input.nextInt();

System.out.print("Enter num2: ");

int num2=input.nextInt();

int quotient=num1/num2;

int rem=num1%num2;

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

input.close();

}

}

1. IntOperation

public class IntOpe{

public static void main(String[] args){

int a=2,int b=3,int c=4;

int a1,a2,a3,a4;

a1=a+b\*c;

a2=a\*b+c;

a3=c+a/b;

a4=a%b+c;

System.out.println("Operation 1: "+a1+" Operation 2: "+a2+"Operation 3: "+a3+" Operation 4: "+a4);

}

}

1. DoubleOpt

import java.util.Scanner;

public class DoubleOpt{

public static void main(String[] args){

Scanner input=new Scanner(System.in);

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

double a=input.nextDouble();

System.out.print("Enter value of b: ");

double b=input.nextDouble();

System.out.print("Enter value of c: ");

double c=input.nextDouble();

double a1,a2,a3,a4;

a1=a+b\*c;

a2=a\*b+c;

a3=c+a/b;

a4=a%b+c;

System.out.println("Operation 1: "+a1+" Operation 2: "+a2+"Operation 3: "+a3+" Operation 4: "+a4);

input.close();

}

}

1. Temperature Conversion to Fahrenheit

import java.util.Scanner;

public class temperatureConversion{

public static void main(String[] args){

Scanner scanner=new Scanner(System.in);

System.out.print("Enter temp in celsius: ");

double celsius=scanner.nextDouble();

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

System.out.println("Temperature in fahrenheit: "+fahrenheit);

scanner.close();

}

}

1. Temperature Conversion to Celcius

import java.util.Scanner;

public class temperatureConversionToC{

public static void main(String[] args){

Scanner scanner=new Scanner(System.in);

System.out.print("Enter temp in fahrenheit: ");

double fahrenheit=scanner.nextDouble();

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

System.out.println("Temperature in celcius: "+celcius);

scanner.close();

}

}

1. Total Income of a person

import java.util.Scanner;

public class totalIncome{

public static void main(String[] args){

Scanner input=new Scanner(System.in);

System.out.print("Enter the salary: ");

int salary=input.nextInt();

System.out.print("Enter the bonus: ");

int bonus=input.nextInt();

System.out.println("The total income: "+(salary+bonus));

input.close();

}

}

1. Swap two numbers

import java.util.Scanner;

public class swap{

public static void main(String[] args){

Scanner input=new Scanner(System.in);

System.out.print("Enter a num1: ");

int a=input.nextInt();

System.out.print("Enter a num2: ");

int b=input.nextInt();

a=a^b;

b=a^b;

a=a^b;

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

input.close();

}

}

1. IntOperation User input

import java.util.Scanner;

public class IntOperation{

public static void main(String[] args){

Scanner input=new Scanner(System.in);

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

int a=input.nextInt();

System.out.print("Enter value of b: ");

int b=input.nextInt();

System.out.print("Enter value of c: ");

int c=input.nextInt();

int a1,a2,a3,a4;

a1=a+b\*c;

a2=a\*b+c;

a3=c+a/b;

a4=a%b+c;

System.out.println("Operation 1: "+a1+" Operation 2: "+a2+"Operation 3: "+a3+" Operation 4: "+a4);

input.close();

}

}

1. Triangular park

import java.util.Scanner;

public class park{

public static void main(String[] args){

Scanner input=new Scanner(System.in);

System.out.print("Enter s1: ");

double s1=input.nextDouble();

System.out.print("Enter s2: ");

double s2=input.nextDouble();

System.out.print("Enter s3: ");

double s3=input.nextDouble();

double peri=s1+s2+s3;

System.out.println("The total rounds: "+(5/(s1+s2+s3)));

input.close();

}

}

1. Chocolates

import java.util.Scanner;

public class choco{

public static void main(String[] args){

Scanner input=new Scanner(System.in);

System.out.print("Enter num of chocolates: ");

int numberOfchocolates=input.nextInt();

System.out.print("Enter num of children: ");

int numberOfChildren=input.nextInt();

System.out.println("Number of chocolates each child will get: "+(numberOfchocolates/numberOfChildren)+"Remaining chocolate:"+(numberOfchocolates%numberOfChildren));

}

}

1. Simple Interest

import java.util.Scanner;

public class si{

public static void main(String[] args){

Scanner scanner=new Scanner(System.in);

System.out.print("Enter principal amt: ");

double principal=scanner.nextDouble();

System.out.print("Enter rate: ");

double rate=scanner.nextDouble();

System.out.print("Enter time: ");

double time=scanner.nextDouble();

double SI=(principal\*rate\*time)/100;

System.out.println("The Simple Interest is: "+SI);

scanner.close();

}

}

1. Weight Conversion

import java.util.Scanner;

public class weightc{

public static void main(String[] args){

Scanner input=new Scanner(System.in);

System.out.print("Enter weight: ");

double weight=input.nextDouble();

double pound=weight/2.2;

System.out.print("Weight in pounds: "+pound);

input.close();

}

}