**JAVA ASSIGMENTS**

import java.util.Scanner;

class Factors{

    public static void main(String args [])

    {

        int number1,number2,value1,value2,value,hcf,lcm;

        Scanner keyboard = new Scanner(System.in);

        System.out.println("enter your number1");

        number1 = keyboard.nextInt();

        System.out.println("number1 is equal to :"+number1);

        System.out.println("enter your number2");

        number2 = keyboard.nextInt();

        System.out.println("number2 is equal to :"+number2);

        value1 = number1;

        value2 = number2;

        while(value2 !=0){

            value = value2;

            value = value1 % value2;

            value1 = value;

         }

         hcf = value1;

         lcm = (number1\*number2)/hcf;

         System.out.println("HCF of input numbers:"+hcf);

         System.out.println("LCM of input numbers:"+lcm);

    }

}

class DistanceTraveled{

    public static void main(String args [])

    {

        double distance1,distance2,distance3;

        distance1 =  5;

        distance2 =  8;

        distance3 = 12;

        distance1 = 60 \* 5;

        System.out.println("distance one is equal to:"+distance1);

        distance2 = 60 \* 8;

        System.out.println("distance two is equal to:"+distance2);

        distance3 = 60 \* 12;

        System.out.println("distance three is equal to:"+ distance3);

    }

}

class DJE{

    public static void main(String args [])

    {

        System.out.println();

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

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

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

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

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

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

        System.out.println();

    }

}

import java.util.Scanner;

class Factors{

    public static void main(String args [])

    {

        int number1,number2,value1,value2,value,hcf,lcm;

        Scanner keyboard = new Scanner(System.in);

        System.out.println("enter your number1");

        number1 = keyboard.nextInt();

        System.out.println("number1 is equal to :"+number1);

        System.out.println("enter your number2");

        number2 = keyboard.nextInt();

        System.out.println("number2 is equal to :"+number2);

        value1 = number1;

        value2 = number2;

        while(value2 !=0){

            value = value2;

            value = value1 % value2;

            value1 = value;

         }

         hcf = value1;

         lcm = (number1\*number2)/hcf;

         System.out.println("HCF of input numbers:"+hcf);

         System.out.println("LCM of input numbers:"+lcm);

    }

}

import java.util.Scanner;

class Land{

    public static void main(String args [])

    {

        double TotalSquareFeet;

        double NamberOfAcre;

        int AcreOfLand;

        AcreOfLand = 43560;

        Scanner input = new Scanner(System.in);

        System.out.println("Enter the total square feet in a tract of land");

        TotalSquareFeet = input.nextDouble();

        NamberOfAcre = TotalSquareFeet / AcreOfLand;

        System.out.println("Namber of acre in tract is :" + NamberOfAcre);

    }

}

import java.util.Scanner;

class MilesPerGallon{

    public static void main(String args [])

    {

        double MPG;

        double MilesDriven;

        double GallonOfGas;

        Scanner keyboard = new Scanner(System.in);

        System.out.println("enter your number of miles driven");

        MilesDriven = keyboard.nextDouble();

        System.out.println("user mile driven is :"+MilesDriven);

        System.out.println("enter your number of gallons of gas used");

        GallonOfGas = keyboard.nextDouble();

        System.out.println("number of gallons of gas used by user is  :"+GallonOfGas);

        MPG = MilesDriven / GallonOfGas;

        System.out.println("milles per gallon is equal to  :"+MPG);

    }

}

import java.util.Scanner;

class MyGame{

    public static void main(String args[])

    {

        String name,city,country,food,animal;

        int age;

        Scanner input = new Scanner(System.in);

        System.out.println("enter your name:");

        name = input.nextLine();

        System.out.println("my name is :"+name);

        System.out.println("enter your city");

        city = input.nextLine();

        System.out.println("my city is :"+city);

        System.out.println("enter your country");

        country = input.nextLine();

        System.out.println("my country is :"+country);

        System.out.println("enter your food");

        food = input.nextLine();

        System.out.println("my food is :"+food);

        System.out.println("enter your favorite animal");

        animal = input.nextLine();

        System.out.println("my favorite animal is :"+animal);

        System.out.println("enter your age");

        age = input.nextInt();

        System.out.println("my age is :"+age);

    }

}

import java.util.Scanner;

class MySalesPrediction{

    public static void main(String args [])

    {

        double Annualprofit;

        double ProjectedAmount;

        double Profit;

        Annualprofit = 0.23;

        Scanner input = new Scanner(System.in);

        System.out.println("Enter the projected amount of total sales");

        ProjectedAmount = input.nextDouble();

        Profit = ProjectedAmount \* Annualprofit;

        System.out.println("The total amount of project is:" + Profit);

    }

}

import java.util.Scanner;

class salesTax{

    public static void main(String args [])

    {

        double AmountOfPurchase;

        double StateTax = 0.04;

        double CountryTax = 0.02;

        double TotalSaleTax;

        double TotalSale;

        Scanner keyboard = new Scanner(System.in);

        System.out.println("enter the amount of a purchase:");

        AmountOfPurchase = keyboard.nextDouble();

        System.out.println("amount of purchase that entered by user is:"+AmountOfPurchase);

        TotalSaleTax = StateTax + CountryTax;

        System.out.println("total sales tax is: "+TotalSaleTax);

        TotalSale = TotalSaleTax + AmountOfPurchase;

        System.out.println("total sale is equal to:"+TotalSale);

    }

}

import java.util.Scanner;

class StudentGrade{

    public static void main(String args [])

    {

        int NumberOfStudent;

        int StudentScore;

        Scanner input = new Scanner(System.in);

        System.out.println("enter your student number:");

        NumberOfStudent = input.nextInt();

        System.out.println("enter your student score:");

        StudentScore = input.nextInt();

        if (StudentScore >= 90){

          System.out.println("student with number\t"+NumberOfStudent+"\tget the grade A");

        }

        else if ( StudentScore >= 80){

            System.out.println("student with number\t"+NumberOfStudent+"\t get the grade B");

        }

        else if (StudentScore >= 70){

            System.out.println("student with number\t"+NumberOfStudent+"\t get the grade C");

        }

        else if (StudentScore >= 60){

            System.out.println("student with number\t"+NumberOfStudent+"\t get the grade D");

        }

        else {

            System.out.println("student with number\t"+NumberOfStudent+"\t get the grade F");

        }

    }

}

import java.util.Scanner;

class StudentGrade{

    public static void main(String args [])

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        Scanner input = new Scanner(System.in);

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            System.out.println("student with number\t"+NumberOfStudent+"\t get the grade C");

        }

        else if (StudentScore >= 60){

            System.out.println("student with number\t"+NumberOfStudent+"\t get the grade D");

        }

        else {

            System.out.println("student with number\t"+NumberOfStudent+"\t get the grade F");

        }

    }

}

import java.util.Scanner;

class TotalPurchase{

    public static void main(String args [])

    {

        double item1,item2,item3,item4,item5;

        double subtotal;

        double amountofsales;

        double total;

        double salestax = 0.06;

        Scanner keyboard = new Scanner(System.in);

        System.out.println("enter amount of the price of item1:");

        item1 = keyboard.nextDouble();

        System.out.println("enter amount of the price of item2:");

        item2 = keyboard.nextDouble();

        System.out.println("enter amount of the price of item3: ");

        item3 = keyboard.nextDouble();

        System.out.println("enter amount of the price of item4:");

        item4 = keyboard.nextDouble();

        System.out.println("enter amount of the price of item5:");

        item5 = keyboard.nextDouble();

        subtotal = item1 + item2 + item3 + item4 + item5;

        System.out.println("subtotal of five items is:"+subtotal);

        amountofsales = subtotal / salestax;

        System.out.println("the amount of sale is:"+amountofsales);

        total = amountofsales + subtotal;

        System.out.println("total amount of sale tax is:"+total);

    }

}