LEVEL 1 PRACTICE PROBLEMS WEEK 1

Q1.

class checkAge {

public static void main(String[] args){

int currentYear = 2024;

int birthYear = 2000;

int age = currentYear - birthYear;

System.out.println("Harry's age in 2024 is "+age);

}

}



Q2.

class avgMarks {

public static void main(String[] args){

int maths = 94;

int physics = 95;

int chemistry = 96;

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

System.out.println("Sam's average marks in PCM is "+avg);

}

}



Q3.

class convertDistance {

public static void main(String[] args){

double mile = 1.6;

double distance = 10.8;

double converted = distance \* mile;

System.out.println("The distance " +distance+ " km in miles is " +converted);

}

}

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Q4.

class profitLoss {

public static void main(String[] args){

int costPrice = 129;

int sellingPrice = 191;

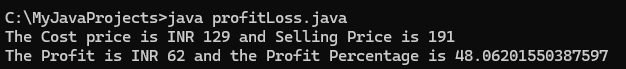
int profit = sellingPrice - costPrice;

double profitPercentage = (profit/(double)costPrice)\*100.0;

System.out.println("The Cost price is INR "+costPrice+" and Selling Price is "+sellingPrice+"\nThe Profit is INR "+profit+" and the Profit Percentage is "+profitPercentage);

}

}



Q5.

class penDivision {

public static void main(String[] args){

int pens = 14;

int students = 3;

int division = pens/students;

int remainder = pens%students;

System.out.println("The Pen Per Student is "+division+" and the remaining pen not distributed is "+remainder);

}

}



Q6.

class feesDiscount {

public static void main(String[] args){

int fee = 125000;

int discountPercent = 10;

double discount = (discountPercent/100.0)\*fee;

double discountedFee = fee - discount;

System.out.println("The discount amount is INR "+discount+" and final discounted fee is "+discountedFee);

}

}



Q7.

class earthVolume {

public static void main(String[] args){

int radiusKM = 6378;

double volKM = (4/3)\*pi\*radius\*radius\*radius;

double volM = volKM\*1.6;

System.out.println("The volume of Earth in cubic kilometers is "+volKM+" and cubic miles is "volM);

}

}



Q8.

class kmToMile {

public static void main(String[] args){

double km;

Scanner input = new Scanner(System.in);

km = input.nextInt();

double mile = km/1.6;

System.out.println("The total miles is "+mile+" for the given "+km+" km");

}

}

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Q9.

import java.util.Scanner;

class discountedFee{

public static void main(String[] args){

Scanner input = new Scanner(System.in);

System.out.println("Enter fee amount: ");

int fee = input.nextInt();

System.out.println("Enter Discount Percentage: ");

double discountPercent = input.nextDouble();

double discount = (discountPercent/100)\*fee;

double discountedFee = fee - discount;

System.out.println("The discount amount is "+discount+" and final discounted fee is INR "+discountedFee);

}

}

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Q10.

import java.util.Scanner;

class feetInches{

public static void main(String[] args){

Scanner input = new Scanner(System.in);

System.out.println("Enter Height in cm: ");

double cm = input.nextDouble();

double inch = cm/2.54;

double feet = inch/12;

System.out.println("Your Height in cm is "+cm+" while in feet is "+feet+" and inches is "+inch);

}

}

