LEVEL 2 : PRACTICE

import java.util.Scanner;

public class Level2Practice {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

// Question 1: Basic Calculator

System.out.print("Enter two numbers: ");

double num1 = scanner.nextDouble();

double num2 = scanner.nextDouble();

System.out.println("Addition: " + (num1 + num2));

System.out.println("Subtraction: " + (num1 - num2));

System.out.println("Multiplication: " + (num1 \* num2));

System.out.println("Division: " + (num1 / num2));

// Question 2: Area of Triangle

System.out.print("Enter base and height of the triangle: ");

double base = scanner.nextDouble();

double height = scanner.nextDouble();

double area = 0.5 \* base \* height;

System.out.println("Area of Triangle: " + area);

// Question 3: Side of Square

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

double perimeter = scanner.nextDouble();

double side = perimeter / 4;

System.out.println("Length of one side: " + side);

// Question 4: Convert Feet to Yards and Miles

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

double feet = scanner.nextDouble();

double yards = feet / 3;

double miles = feet / 1760 / 3;

System.out.println("Distance in yards: " + yards + " and in miles: " + miles);

// Question 5: Total Purchase Price

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

double unitPrice = scanner.nextDouble();

int quantity = scanner.nextInt();

double totalPrice = unitPrice \* quantity;

System.out.println("Total purchase price is INR " + totalPrice);

// Question 6: Quotient and Reminder

System.out.print("Enter two numbers: ");

int number1 = scanner.nextInt();

int number2 = scanner.nextInt();

System.out.println("Quotient: " + (number1 / number2));

System.out.println("Reminder: " + (number1 % number2));

// Question 7: Integer Operations

System.out.print("Enter three integers a, b, c: ");

int a = scanner.nextInt();

int b = scanner.nextInt();

int c = scanner.nextInt();

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

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

System.out.println("c + a / b: " + (c + a / b));

System.out.println("a % b + c: " + (a % b + c));

// Question 8: Double Operations

System.out.print("Enter three double values x, y, z: ");

double x = scanner.nextDouble();

double y = scanner.nextDouble();

double z = scanner.nextDouble();

System.out.println("x + y \* z: " + (x + y \* z));

System.out.println("x \* y + z: " + (x \* y + z));

System.out.println("z + x / y: " + (z + x / y));

System.out.println("x % y + z: " + (x % y + z));

scanner.close();

}

}