Level 2 Practice Programs

**Question 1:**

import java.util.Scanner;

public class BasicCalc {

    public static void main (String[] args) {

        Scanner input=new Scanner(System.in);

        System.out.print("\n\nEnter Num1: ");

        int num1 = input.nextInt();

        System.out.print("\nEnter Num2: ");

        int num2 = input.nextInt();

        int sum = num1 + num2;

        int diff = num1 - num2;

        int product = num1 \* num2;

        double divide = num1 / num2;

        System.out.print("Basic Arithmetic results of: \nNum1: " + num1 + "\nNum2: " + num2);

        System.out.print("\n\nSum = " + sum);

        System.out.print("\nDifference = " + diff);

        System.out.print("\nProduct = " + product);

        System.out.print("\nDivision = " + divide);

    }

}

**Question 2:**

import java.util.Scanner;

public class Triangle {

    public static void main (String[] args) {

        Scanner input=new Scanner(System.in);

        System.out.print("\n\nEnter the dimensions of the base: ");

        double base = input.nextDouble();

        System.out.print("\nEnter the dimensions of the height: ");

        double height = input.nextDouble();

        double baseinch = base/2.54;

        double heightinch = height/2.54;

        double basefeet = baseinch/12;

        double heightfeet = heightinch/12;

        double area = 0.5 \* base \* height;

        double areainch = 0.5 \* baseinch \* heightinch;

        double areafeet = 0.5 \* basefeet \* heightfeet;

        System.out.print("\n\nArea of the triangle:");

        System.out.print("\nIn centimeter = " + area);

        System.out.print("\nIn inches = " + areainch);

        System.out.print("\nIn feet = " + areafeet);

    }

}

**Question 3:**

import java.util.Scanner;

public class Triangleperimeter {

    public static void main (String[] args) {

        Scanner input=new Scanner(System.in);

        System.out.print("\n\nEnter the perimeter: ");

        double perimeter = input.nextDouble();

        double side = perimeter/4;

        System.out.print("\n\nSide of the square is: " + side);

    }

}

**Question 4:**

import java.util.Scanner;

public class DistanceConverter {

    public static void main(String[] args) {

        Scanner scanner = new Scanner(System.in);

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

        double distanceInFeet = scanner.nextDouble();

        double distanceInYards = distanceInFeet / 3;

        double distanceInMiles = distanceInYards / 1760;

        double distanceInCm = distanceInFeet\*30.48;

        double distanceInInches = distanceInFeet/12;

        System.out.printf("\nHeight in cm is " + distanceInCm);

        System.out.printf("\nHeight in feet is " + distanceInFeet);

        System.out.printf("\nHeight in yards is " + distanceInYards);

        System.out.printf("\nHeight in cm is " + distanceInInches);

    }

}

**Question 5:**

import java.util.Scanner;

public class PurchaseCalculator {

    public static void main(String[] args) {

        Scanner scanner = new Scanner(System.in);

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

        double unitPrice = scanner.nextDouble();

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

        int quantity = scanner.nextInt();

        double totalPrice = unitPrice \* quantity;

        System.out.printf("The total purchase price is INR %.2f if the quantity is %d and unit price is INR %.2f\n", totalPrice, quantity, unitPrice);

    }

}

**Question 6:**

import java.util.Scanner;

public class DivisionCalculator {

    public static void main(String[] args) {

        Scanner scanner = new Scanner(System.in);

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

        int number1 = scanner.nextInt();

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

        int number2 = scanner.nextInt();

        int quotient = number1 / number2;

        int remainder = number1 % number2;

        System.out.printf("The Quotient is %d and Remainder is %d of two numbers %d and %d\n", quotient, remainder, number1, number2);

        scanner.close();

    }

}

**Question 7:**

import java.util.Scanner;

public class IntOperation {

    public static void main(String[] args) {

        Scanner scanner = new Scanner(System.in);

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

        int a = scanner.nextInt();

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

        int b = scanner.nextInt();

        System.out.print("Enter the third number (c): ");

        int c = scanner.nextInt();

        int result1 = a + b \* c;

        int result2 = a \* b + c;

        int result3 = c + a / b;

        int result4 = a % b + c;

        System.out.printf("The results of Int Operations are %d, %d, %d, and %d\n", result1, result2, result3, result4);

    }

}