Task-2-Date-02-27-2024-Day-28.docx

Task 2: Write a Java program to read two inputs a and b from the user and find a^b if b^a. else find b a without using if-else control statement, and conditional conditional operator.

import java.util.Scanner;

public class Exponantion {

    public static void main(String[] args) {

        Scanner scanner = new Scanner(System.in);

//Takes the input from the user

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

        int a = scanner.nextInt();

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

        int b = scanner.nextInt();

        // Check if a < b using modulo operator

        int result = Math.abs(a) < Math.abs(b) ? power(a, b) : power(b, a);

        System.out.println("The Exponantial : " + result);

    }

    static int power(int base, int exponent) {

        System.out.println(base);

        System.out.println(exponent);

        System.out.println("The smallest one is " + base);

        double result =  Math.pow(base, exponent);

        return (int) result;

  }}

OUTPUT:

Case 1:

Enter the first number a: 12

Enter the second number b: 2

2

12

The smallest one is 2

The Exponantial : 4096

Case 2:

Enter the first number a: 2

Enter the second number b: 12

2

12

The smallest one is 2

The Exponantial : 4096