PRACTICAL – 9

PROGRAM -1

AIM- Write a method with following method header. public static intgcd(int num1, int num2) Write a program that prompts the user to enter two integers and compute the gcd of two integers.

CODE-

|  |
| --- |
| import java.util.Scanner;  public class Main {  public static int gcd(int num1, int num2) {  // Implement the GCD calculation logic here  // Example using the Euclidean Algorithm:  while (num2 != 0) {  int temp = num2;  num2 = num1 % num2;  num1 = temp;  }  return num1;  }  public static void main(String[] args) {  // GET INPUT FROM USER  Scanner input = new Scanner(System.in);  System.out.print("Enter the first integer: ");  int num1 = input.nextInt();  System.out.print("Enter the second integer: ");  int num2 = input.nextInt();  System.out.println("The gcd of " + num1 + " and " + num2 + " is " + gcd(num1, num2));  }  } |

OUTPUT-

|  |
| --- |
|  |