

## Practical 9

**Aim :** Write a method with following method header. `public static int gcd(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.*;

class Practical9
{
    public static void main(String args[])
    {
        Scanner a=new Scanner(System.in);
        System.out.println("Enter number 1 : ");
        int n1=a.nextInt();
        System.out.println("Enter number 2 : ");
        int n2=a.nextInt();
        System.out.println("The GCD of "+n1+" and "+n2+" is : "+gcd(n1,n2));
    }

    public static int gcd(int n1,int n2){
        if(n2==0)
            return n1;
        return gcd(n2,n1%n2);
    }
}
```

**Output :**

```
C:\Users\SI\OneDrive\Desktop\BE SEM 4\05_ OBJECT ORRIENTED PROGRAMMING -1\220133107008>javac Practical9.java  
C:\Users\SI\OneDrive\Desktop\BE SEM 4\05_ OBJECT ORRIENTED PROGRAMMING -1\220133107008>java Practical9  
Enter number 1 :  
10  
Enter number 2 :  
23  
The GCD of 10 and 23 is : 1
```