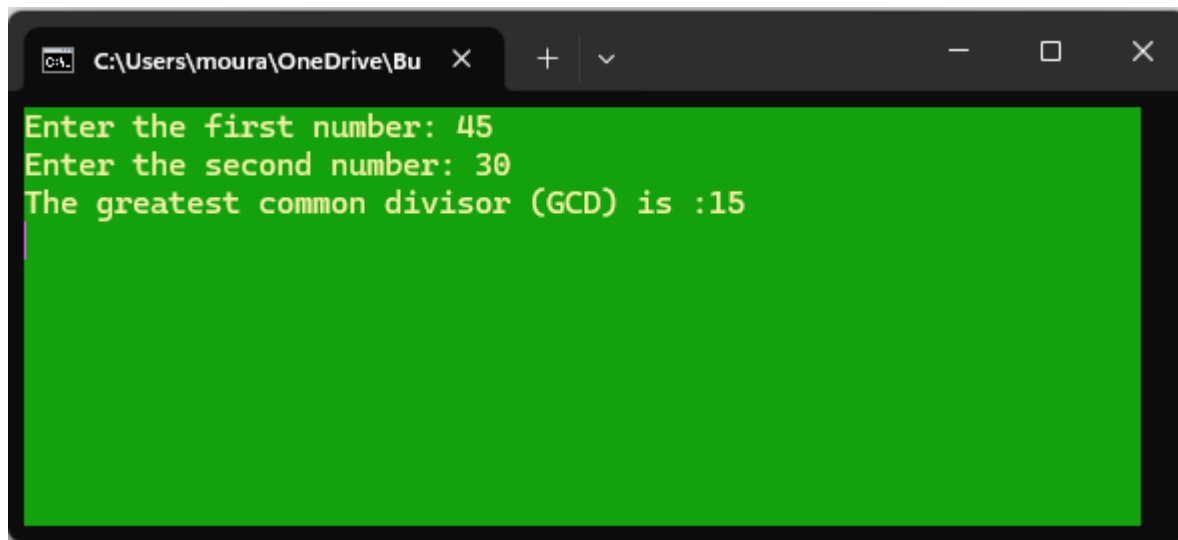# The second serie (N°02)

Solution

Exercice 08 :

1) Here is a pascal program that calculates the greatest common divisor (GCD) of two numbers (using the following trick: Subtract the smaller of the two integers from the larger until they are equal):

```pascal
Program GcDivisor;
var a,b,gcd:integer;
Begin
Write('Enter the first number: ');
readln(a);
Write('Enter the second number: ');
readln(b);
Repeat
if a>b then a:=a-b
else if a<b then b:=b-a else a:=b;
until a=b;
gcd:=a;   //or gcd:=b;
Writeln('The greatest common divisor (GCD) is :',gcd);
readln;
end.
```

After program running, here's the display:


```
Enter the first number: 45
Enter the second number: 30
The greatest common divisor (GCD) is :15
```