

The second serie (N°02)

Solution

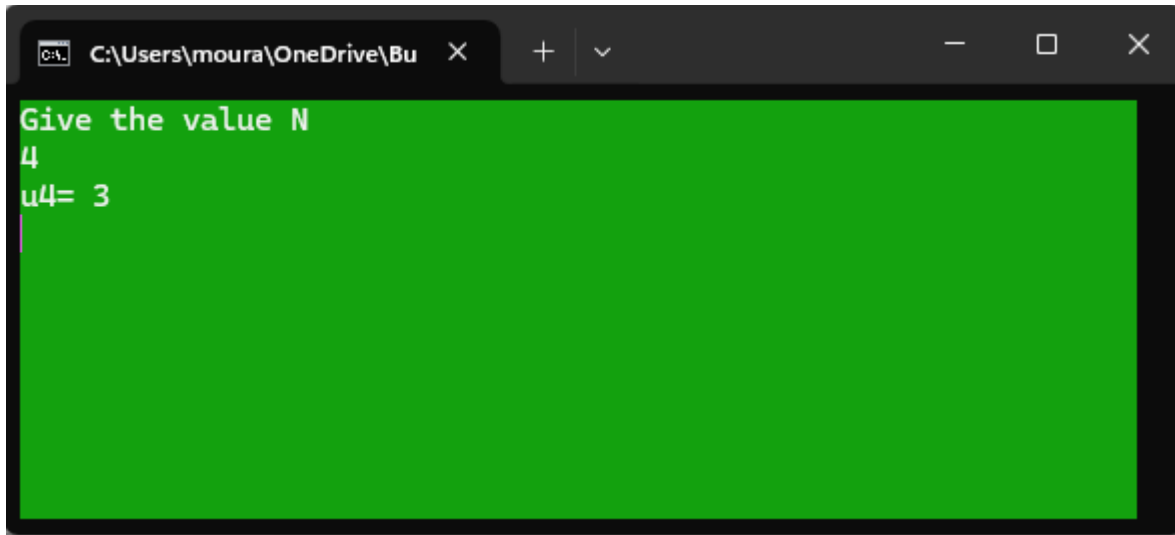
Exercice 07 :

- 1) Here is a pascal program that calculates the Nth term U_N of the FIBONACCI sequence which is given by the recurrence relation:

$U_1=1, U_2=1, U_N = U_{N-1} + U_{N-2}$ (for $N>2$). N is given by the user.

```
Program fibonacci;
var N,un,u1,u2,i : integer;
Begin
writeln('Give the value N');
readln(N);
u1:=1;
u2:=1;
For i:=3 to N Do
Begin
un:=u1+u2;
u1:=u2;
u2:=un;
end;
writeln('u',N,'= ',un);
readln;
end.
```

After program running, here's the display:



A screenshot of a Windows command prompt window. The title bar shows the path `C:\Users\moura\OneDrive\Bu`. The window has a black background with white text. The text displayed is:

```
Give the value N
4
u4= 3
```

© Dr. Guest