

The second serie (N°02)

Solution

Exercice 06 :

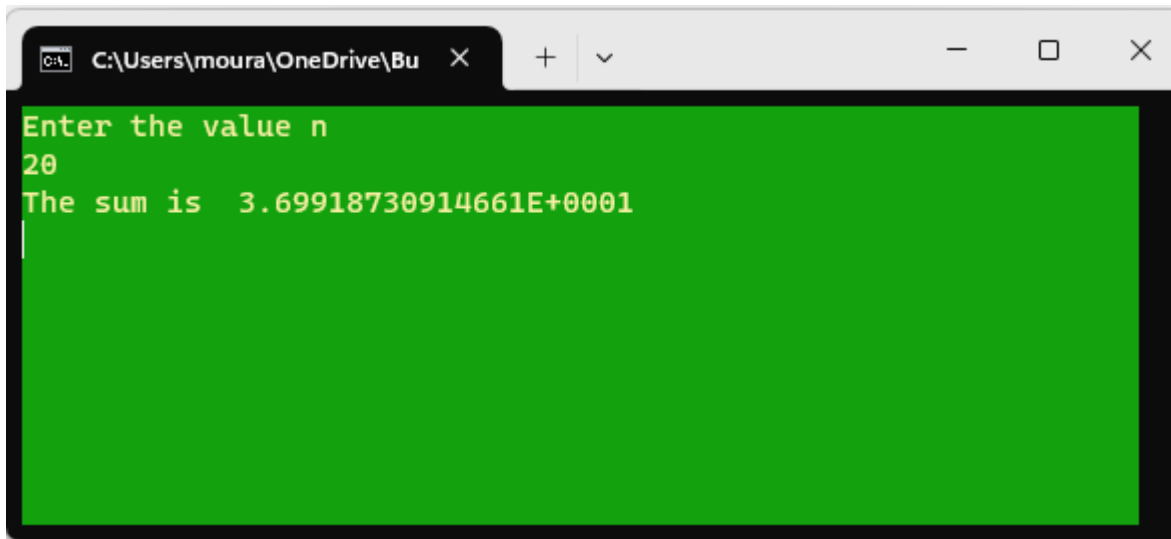
1) Here is a pascal program that calculates Sn:

$$S_n = 4 \sum_{k=0}^N \frac{k}{2k + 1}$$

N is a user-entered integer.

```
Program sum;
var k,n:integer;
s:real;
Begin
writeln('Enter the value n');
readln(n);
s:=0;
For k:=0 to n Do
Begin
s:=s+4*(k/(2*k+1));
end;
Writeln('The sum is ',s);
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' and standard window controls. The command prompt has a green background and white text. It displays the following text: 'Enter the value n', '20', and 'The sum is 3.69918730914661E+0001'.

```
C:\Users\moura\OneDrive\Bu > Enter the value n
20
The sum is 3.69918730914661E+0001
```

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