

The third serie (N°03)

Solution

Exercice 02 :

This a Pascal program that which displays the successor and predecessor of a positive integer entered on the keyboard Without using keywords Succ(x) or Pred(x). The program runs indefinitely until typing (-1)

See the solution on the next page...

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```
program SuccPred;

var
  num: integer;

procedure Successor(n: integer);
begin
  writeln('Successor of ', n, ' is ', n + 1);
end;

procedure Predecessor(n: integer);
begin
  writeln('Predecessor of ', n, ' is ', n - 1)
end;

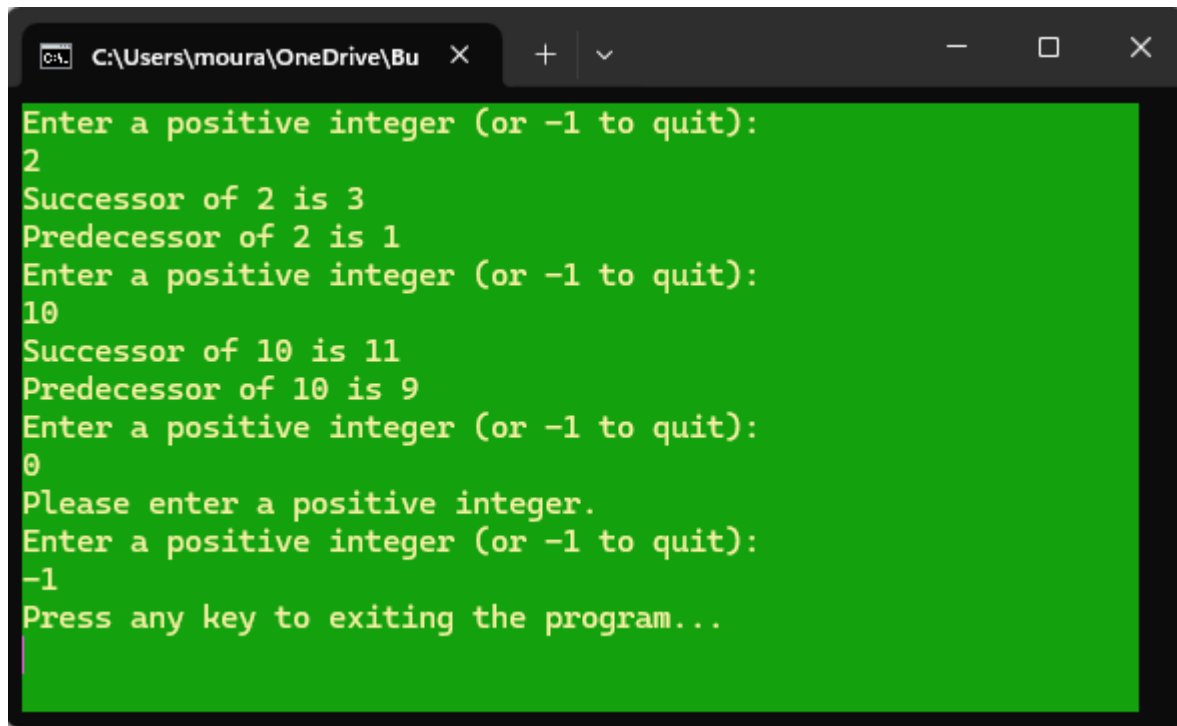
begin
  repeat
    writeln('Enter a positive integer (or -1 to quit): ');
    readln(num);

    if num = -1 then
      writeln('Press any key to exiting the program...')
    else if num > 0 then
      begin
        Successor(num);
        Predecessor(num);
      end
    else
      writeln('Please enter a positive integer.');

  until num = -1;

  readln;
end.
```

After running the program, here is the display:



```
C:\Users\moura\OneDrive\Bu x + v - □ ×  
Enter a positive integer (or -1 to quit):  
2  
Successor of 2 is 3  
Predecessor of 2 is 1  
Enter a positive integer (or -1 to quit):  
10  
Successor of 10 is 11  
Predecessor of 10 is 9  
Enter a positive integer (or -1 to quit):  
0  
Please enter a positive integer.  
Enter a positive integer (or -1 to quit):  
-1  
Press any key to exiting the program...
```

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