

## The second serie (N°02)

### Solution

#### Exercise 01 :

- 1) Here are the pascal programs that display numbers between 0 and 10 using: **For**, **While** and **Repeat**.

a) Using **For**

```
Program ex01;  
var i:integer;  
Begin  
For i:=0 to 10 do  
Begin  
writeln(i);  
end;  
readln;  
end.
```

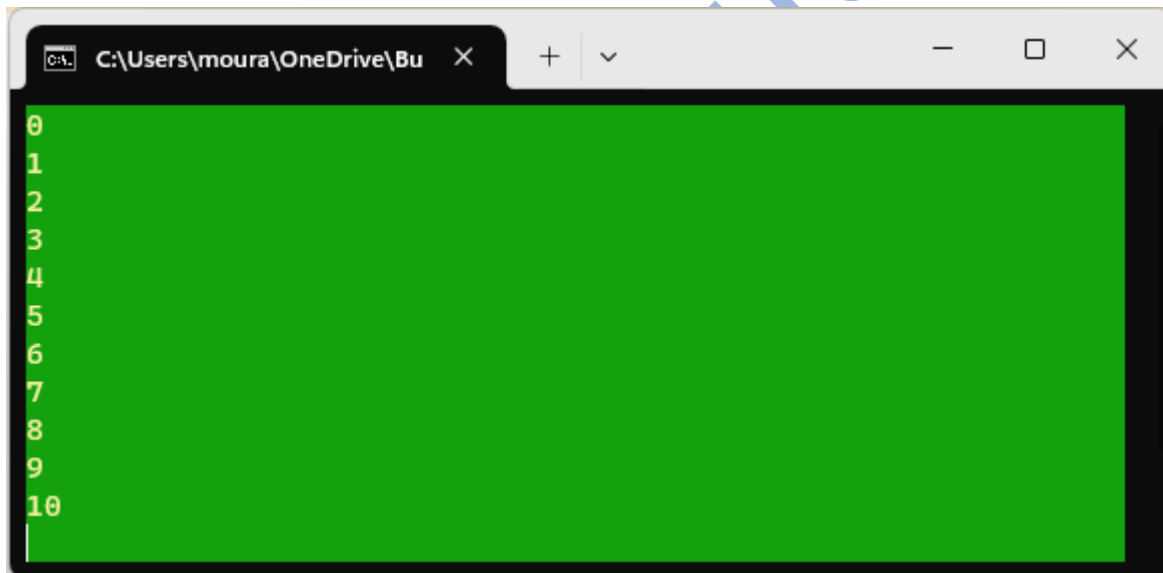
b) Using **While**

```
Program ex01;  
var i:integer;  
Begin  
i:=0;  
while i<=10 do  
begin  
writeln(i);  
i:=i+1; end;  
readln;  
end.
```

c) Using **Repeat**

```
Program ex01;  
var i:integer;  
Begin  
i:=0;  
repeat  
Begin  
write(i, ' ');  
i:=i+1;  
end;  
until i>10;  
readln;  
end.
```

After each program running, here's the display:



The screenshot shows a terminal window with a green background and white text. The output of the program is a sequence of integers from 0 to 10, displayed on a single line. The window title bar shows the path C:\Users\moura\OneDrive\Bu and standard window controls.

```
0  
1  
2  
3  
4  
5  
6  
7  
8  
9  
10
```

- 2) Here is the modified program that displays the numbers between two values A and B entered by the user, **For**, **While** and **Repeat**.

a) Using **For**

```
program ex01;
var a,b,i:integer;
Begin
writeln('Enter start value a '); readln(a);
writeln('Enter end value b '); readln(b);
For i:=a to b Do
Begin
writeln(i);
end;
readln;
end.
```

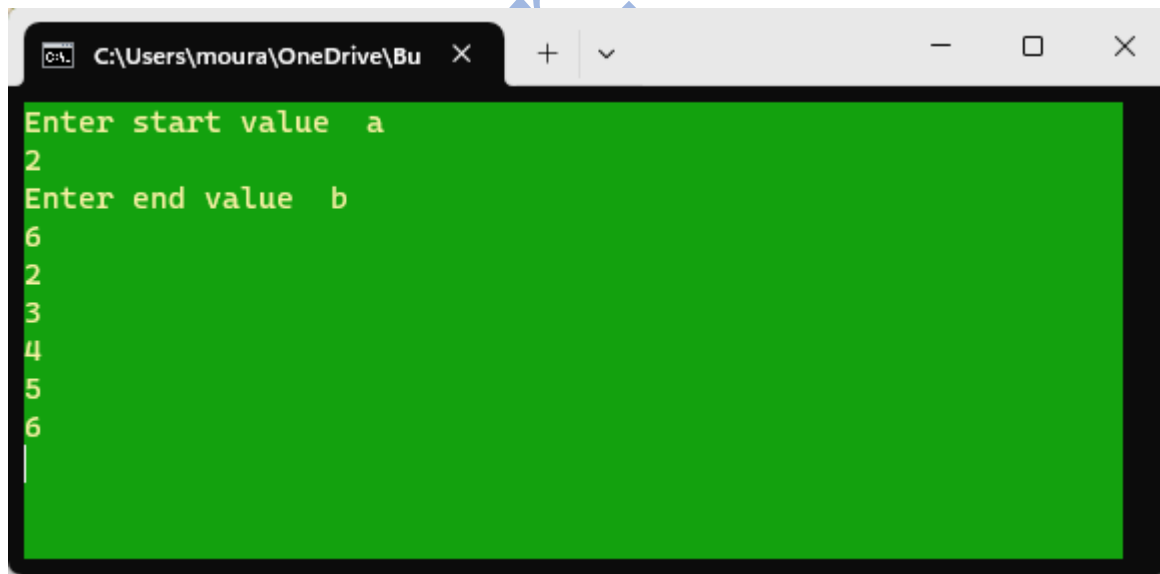
d) Using **While**

```
program ex01;
var a,b,i:integer;
Begin
writeln('Enter start value a '); readln(a);
writeln('Enter end value b '); readln(b);
i:=a;
While i<=b Do
Begin
writeln(i);
i:=i+1;
end;
readln;
end.
```

e) Using **Repeat**

```
program ex01;
var a,b,i:integer;
Begin
writeln('Enter start value a '); readln(a);
writeln('Enter end value b '); readln(b);
i:=a;
repeat
Begin
writeln(i);
i:=i+1;
end;
until i>b;
readln;
end.
```

After each program running, here's the display:



```
C:\Users\moura\OneDrive\Bu x + v - □ x
Enter start value a
2
Enter end value b
6
2
3
4
5
6
```