

The second serie (N°02)

Solution

Exercice 03 :

- 1) Here is a pascal program which displays the even and odd numbers between two variables A and B entered by the user.

```
program ex03;
var a,b,i,s:integer;
Begin
writeln('Enter start value a '); readln(a);
writeln('Enter end value b '); readln(b);
writeln('Even numbers between ', a, ' and ', b, ':');
For i:=a to b Do
begin
if i mod 2=0 then
Write(i, ' ');
end;
writeln;
writeln('Odd numbers between ', a, ' and ', b, ':');
For i:=a to b Do
begin
if i mod 2<>0 then
Write(i, ' ');
end;
readln;
end.
```

After program running, here's the display:

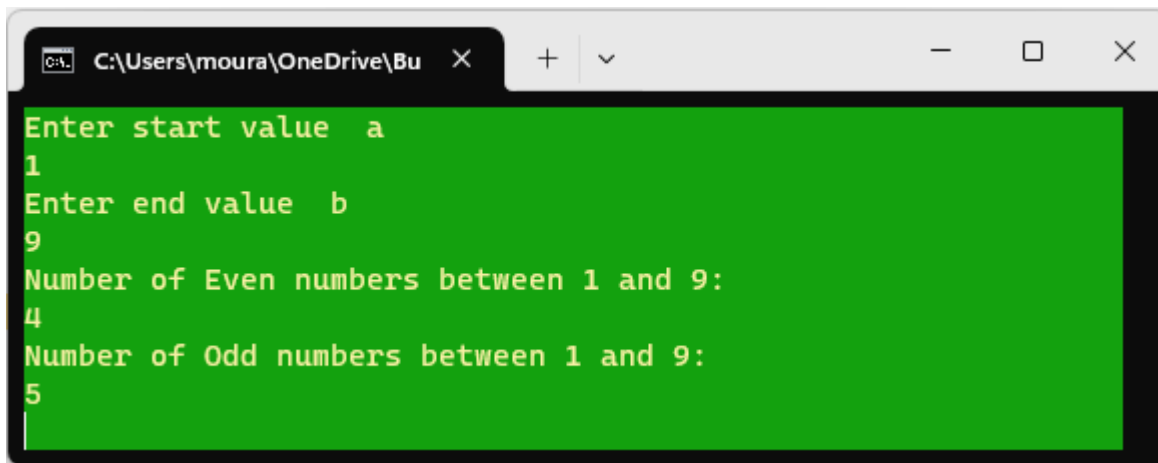
A screenshot of a terminal window with a black background and green text. The window title bar shows the path 'C:\Users\moura\OneDrive\Bu'. The text in the terminal reads: 'Enter end value b', '10', 'Even numbers between 0 and 10:', '0 2 4 6 8 10', 'Odd numbers between 0 and 10:', and '1 3 5 7 9 |'.

```
C:\Users\moura\OneDrive\Bu x + v - □ ×  
Enter end value b  
10  
Even numbers between 0 and 10:  
0 2 4 6 8 10  
Odd numbers between 0 and 10:  
1 3 5 7 9 |
```

- 2) Here is the modified program to display the number of even and odd numbers between two variables A and B entered by the user (Ex: A = 1, B = 9 the number of even = 4, odd number = 5).

```
program ex03;  
var a,b,i,Ev,Od:integer;  
Begin  
writeln('Enter start value a '); readln(a);  
writeln('Enter end value b '); readln(b);  
  
Ev:=0;  
For i:=a to b Do  
begin  
if i mod 2=0 then  
Ev:=Ev+1;  
end;  
writeln('Number of Even numbers between ', a, ' and ', b, ':');  
Writeln(Ev);  
  
Od:=0;  
For i:=a to b Do  
begin  
if i mod 2<>0 then  
Od:=od+1;  
end;  
writeln('Number of Odd numbers between ', a, ' and ', b, ':');  
Writeln(od);  
readln;  
end.
```

After program running, here's the display:

A screenshot of a terminal window with a black title bar and a green background. The window title is "C:\Users\moura\OneDrive\Bu". The text displayed in the terminal is:

```
Enter start value a
1
Enter end value b
9
Number of Even numbers between 1 and 9:
4
Number of Odd numbers between 1 and 9:
5
```

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