Programming

Lesson4 - Boolean, Conditions & Scopes رالبولياني, المتغيّر البولياني, الدرس الرابع, الشروط, والنطاقات الشروط, والنطاقات

Reminder - Lesson3

- Print
 - ▶ print('message', ...) → prints message to the screen
- ► Input
 - ▶ input('message') → reads input from user
 - prints message on screen and move control to user
- ► Types conversion

New type: boolean

- ► Represents 2 values **ONLY**:
 - True
 - x = True
 - False
 - y = False
- ► The answer of expression/question

Conditional statements

- ▶ if → python keyword to start conditional statement
- ▶ if <condition> → if statement
- ► How:
 - if <condition>:
 - do something
- **Example:**
 - if age > 16:
 - Print('your age is greater than 16')

Scope

- Region of instruction
 - Variables declaration
 - Inputs/outputs
 - ...
- Variables file → no spaces at all → all instruction in one scope

```
End of if statement & Beginning of scope if age > 16:

print('Hello', 'we are in if scope') in if scope
print('Welcome!', 'still in if scope')

print('NOT in if scope') No spaces > NOT in if scope
```

Nested Scopes

```
if age > 16:
    print('your age is > 16')
    if age < 30:
        print('but its also < 30')
        print('in second if scope')
        print('in first if scope')
        print('not in any if scope')</pre>
Not in any if scope
```

Let's try...©

- Open PyCharm:
 - Create new file: conditions.py
 - ► Read user age
 - Convert age
 - ► Check if age > 20
 - print something



Thank you ©!

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Stay tuned for more!