



EXPLORER

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PYTHON

Automate-Boring-Stuff

my_code

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03_Collections-Mapping-Lo..

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percipio20_if_statement.py x

```
1 # percipio20_if_statement.py
2 # Percipio video: Collections, Mapping, & Looping; The If Statement in Python
3 #
4 nl = '\n'
5 # The if statement depends on conditions for execution
6 age = 0 # 0 equals False so this code will not execute
7 if age: #
8     print('False conditions do not execute') #
9     print('so, these statements won\'t print') #
10 #
11 age = 1 # 1 equals True so this code will execute
12 if age: #
13     print('True conditions execute the') #
14     print('indented suite of code') #
15 #
16 age = 17 # condition is an integer with comparisons below
17 if age >= 18: #
18     print('You are old enough to vote') #
19 else: #
20     print('You are too young to vote') #
21 #
22 score = 91 # elif statements used below
23 print('The grade was:', end=' ') # Notice the Print statements below (the letter grades) print in this line,
    after the "end=' '" code
24 if score < 60: #
25     print('F') #
26 elif 60 <= score < 70: #
27     print('D') #
28 elif 70 <= score < 79: #
29     print('C') #
30 elif 80 <= score < 90: #
31     print('B') #
32 elif 90 <= score < 100: #
33     print('A') #
34 else: #
35     print('Impossible!') #
36 #
37 # Short forms of if statements
38 # One single statement to print when the if condition is True. No False condition or else statement used.
39 debug = True # create a debugging tool set to True while writing, and set to False upon code completion and
    delivery
40 if debug: print('Score was:', score) # prints score from above statement
41 #
42 # Long form code block
43 if score > 59: #
44     result = 'Pass' #
45 else: #
46     result = 'Fail' #
```

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43 if score > 59: #
44     result = 'Pass' #
45 else: #
46     result = 'Fail' #
47 if debug: print('Result was:', result) # uses the above debug statement to help debug the program through out
48 #
49 # Short form code block with same result as above long form code block
50 score = 40 #
51 if debug: print('Score was:', score) #
52 result = 'Pass' if score > 59 else 'Fail' #
53 if debug: print('Result was:', result) #
54 '''
55 True conditions execute the
56 indented suite of code
57 You are too young to vote
58 The grade was: A
59 Score was: 91
60 Result was: Pass
61 Score was: 40
62 Result was: Fail
63 '''
```

