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Python Flow Control (If Else and Loops) Quiz

Updated on: June 24, 2025 | + 46 Comments

This Python loops and control flow (if-else and loops) Quiz provides Multiple Choice Questions (MCQ) to help you get familiar with if-else conditions, for loops, and while loops and also improve your understanding of branching and looping techniques in Python.

Also, Solve Python loops Exercise.

• The quiz contains **25 questions.** There is no time limit.

 You will get 1 point for each correct answer. Solve 15 correctly to pass the test.

Read the following tutorials to solve this quiz

- Control flow statements
- for loop
- range() function
- while loop
- Break and Continue statement
- Nested loop

Congratulations, You have completed Python Flow Control (If Else and Loops) Quiz.

You scored **25** points out of **25** points in total.

- No of Correct Answers: 25
- No of wrong Answers: 0
- Number of unanswered questions: 0

Your obtained grade is **PASS**

Your answers are shown below:

1. Which of the following statements is used to exit a loop prematurely in Python?

- continue
- pass
- break
- exit()

Explanation: The break statement immediately terminates the loop.

2. How many times will the print statement be executed in the following code?

```
for i in range(10):
   if i == 5:
     break
   print(i)
```

• 5 times

- 10 times
- 6 times
- 4 times

Explanation: The loop iterates from 0. When i becomes 5, the break statement is executed, terminating the loop. So, print(i) is called for i = 0, 1, 2, 3, 4 (5 times).

- 3. What kind of error is most likely to occur if you incorrectly indent a line of code within an if block?
 - SyntaxError
 - NameError
 - IndentationError
 - TypeError

Explanation:

Python relies heavily on indentation to define code blocks. Incorrect indentation will lead to an

IndentationError.

4. What is the value of x

```
x = 0
while x < 10:
    x+=2
print(x)</pre>
```

- 0
- 8
- Error
- 10

5. What is the output of the following nested loop?

```
numbers = [10, 20]
items = ["Chair", "Table"]
for x in numbers:
```

for y in items:
 print(x, y)

- 10 Chair
 - 10 Table
 - 20 Chair
 - 20 Table
- 10 Chair10 Table

6. Which of these is NOT a valid control flow statement in Python?

- if
- switch
- while
- for

7. What is the output of the following loop

```
for i in 'Jhon':
    if i == 'o':
        pass
    print(i, end=", ")
```

- J, h, n,
- J, h, o, n,

In Python, the **pass** is a null operation. The Python interpreter executes the **pass** statement without any activity. The **pass** statement is useful when you want to write the pseudo code that you want to implement in the future.

8. What is the output of the following range() function

```
for num in range(2,-5,-1):
    print(num, end=", ")
```

• 2, 1, 0

- 2, 1, 0, -1, -2, -3, -4, -5
- 2, 1, 0, -1, -2, -3, -4
- 9. Which keyword is used to skip the rest of the current iteration of a loop and move to the next iteration?
 - break
 - continue
 - return
 - exit

Explanation: continue skips the rest of the code in the current iteration and proceeds to the next one.

10. What will be the output of the following Python code?

matrix = [[1, 2], [3, 4]]
for row in matrix:
 for item in row:

```
print(item, end=" ")
print()
```

- 12
 - 3 4
- 1234
- [1, 2] [3, 4]
- Error

This is a nested loop iterating through a list of lists (a matrix). The end=" " argument in print prevents a new line after each number, separating them with a space. The final print() creates a single newline at the very end

11. What will be the output of the following Python code?

```
data = ["apple", "banana", "cherry"]
for index, item in enumerate(data):
    print(f"{index}: {item}")
```

- 0: apple
 - 1: banana
 - 2: cherry
- apple banana cherry
- (0, 'apple')(1, 'banana')(2, 'cherry')
- index: item index: item index: item

enumerate() adds a counter to an iterable. It
returns tuples of (index, value). The f-string
then formats these into the desired output.

12. What will be the output of the following Python code?

```
nums = [10, 20, 30]
for num in nums:
    if num > 25:
        print("Large number found")
        break
else:
    print("No large numbers")
```

- Large number found
 No large numbers
- Large number found
- No large numbers
- Error

The loop iterates. When num is 30, num > 25 is true. "Large number found" is printed, and break terminates the loop. The else block is not executed because of the break

13. When you iterate directly over a dictionary using a for loop (e.g., for key in

my_dict:), what do you get in each

iteration?

- The items (as dict_items object)
- The values
- Key-value pairs (as tuples)
- The keys

Explanation:

Direct iteration over a dictionary by default iterates over its keys. To get values, use my_dict.values(); for key-value pairs, use my_dict.items().

14. What will be the output of the following Python code?

```
sum_val = 0
for i in range(1, 4):
  for j in range(1, 3):
    sum_val += 1
print(sum_val)
```

- 6
- 3
- 9
- 12

The outer loop runs for i = 1, 2, 3 (3 times). The inner loop runs for j = 1, 2 (2 times). For each iteration of the outer loop, the inner loop runs twice. So, sum_val += 1 executes 3*2=6 times.

15. What will be the output of the following Python code?

```
result = 0
for i in range(4):
    if i % 2 == 0:
        result += 1
    else:
        result -= 1
print(result)
```

- 2
- 1
- 0
- -1

- i=0:0 % 2 == 0 (True), result = 0 + 1 = 1
- i=1: 1 % 2 == 0 (False), result = 1 1 = 0
- i=2: 2 % 2 == 0 (True), result = 0 + 1 = 1
- i=3: 3 % 2 == 0 (False), result = 1 1 = 0 Final result is 0

16. What does the zip() function do when used with loops?

- It concatenates multiple lists into one.
- It combines corresponding elements from multiple iterables into tuples.

- It creates a compressed archive of iterables.
- It shuffles the elements of an iterable.

Explanation: zip() is used to iterate over multiple iterables simultaneously, pairing up elements at the same index.

17. if -3 will evaluate to True

- True
- False

Explanation: In Python, any non-zero value or nonempty container is considered TRUE.

18. Which of the following correctly describes a while loop?

 It executes a block of code a fixed number of times.

- It executes a block of code as long as a certain condition is true.
- All of the above

Explanation: while loops are used for repetitive execution as long as a given boolean condition remains true.

19. What will be the output of the following Python code?

```
for i in range(3):
    if i == 1:
        continue
    print(i)
else:
    print("Loop finished")
```

• 0

1

2

Loop finished

- 0
 - 2

Loop finished

- 0
 - 1

Loop finished

- 0
 - 2

Explanation:

The continue statement skips the rest of the current iteration when i is 1, so print(1) is skipped. The loop completes all iterations (0, 1, 2) without break, so the else block executes.

20. What will be the output of the following Python code?

```
x = 1
while x <= 3:
  print(x * '*', end=' ')
  x += 1</pre>
```

- *** ** *
- 1 22 333
- * * * * * *
- * ** ***

Explanation: The * operator with a string and an integer performs repetition.

- x=1: 1 * '*' -> *
- x=2: 2 * '*' -> **
- x=3:3 * '*' -> ***

21. What is the primary purpose of a for loop in Python?

- To execute a block of code only if a condition is true.
- To iterate over a sequence (like a list, tuple, string, or range) or other iterable objects.
- To define a function that can be called multiple times.

• To handle exceptions and errors in a program

Explanation: for loops are designed for iteration over iterables.

22. What will be the output of the following Python code?

```
x = 0
while x < 3:
    x += 1
    if x == 2:
        continue
    print(x)</pre>
```

- '
 - 2
 - 3
- 1
 - 3
- - 2

• Error

Explanation:

- x=0, loop starts.
- x becomes 1, prints 1.
- x becomes 2, if x == 2 is true, continue
 skips print, loop continues.
- x becomes 3, prints 3.
- x is no longer less than 3, loop ends

23. In the expression condition1 and condition2, when is condition2 evaluated?

- Always
- Only if condition1 is False.
- Only if condition1 is True.
- Never

Explanation:

Python (and many other languages) uses short-circuit evaluation for logical and and or . For and , if the first condition is False , the entire expression is already False , so the second condition is not evaluated.

24. What is the purpose of the else block in a for loop?

- It executes if the loop finishes normally (without a break).
- It is not a valid construct in Python loops.
- It executes only if the loop condition is initially false.
- It executes if the loop is interrupted by an error.

Explanation:

The else block after a for loop (or while loop) executes if the loop completes all

iterations without encountering a break statement.

25. Consider the following code: my_list = [10, 20, 30]

Which of the following for loop correctly iterates through my_list and prints each element?

- for i in 3: print(my_list[i])
- for i in range(len(my_list)):
 print(my_list[i])
- for my_list: print(my_list)
- All of the above

Explanation: range(len(my_list)) generates indices (0, 1, 2), which are then used to access elements of my_list

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About Vishal



I'm Vishal Hule, the Founder of PYnative.com. As a Python developer, I enjoy assisting students, developers, and learners. Follow me on Twitter.

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Comments



Chika Josephine says

MARCH 31, 2024 AT 10:53 PM

please can you explain answer12 and 13



Chika Josephine says

MARCH 31, 2024 AT 10:59 PM

please I just noticed the numbering to the question changed. I need explanation to question 4, 6 and 8.

Meanwhile your quizzes are so interesting, I am a beginner and I know how much knowledge I have gained just in 2 days I came across this site. Please keep up the good work.

REPLY



Murphyd says

OCTOBER 8, 2023 AT 8:45 PM

You are the best



yes says

FEBRUARY 7, 2024 AT 6:39 PM

thank yiu

REPLY



e says

SEPTEMBER 19, 2023 AT 12:09 AM

Yay very muy cooolz

REPLY



Prince Adinkrah Ankomah says

JUNE 6, 2023 AT 8:51 PM

What is the result of running the following code?

a = 0

for i in range(10):

$$a += i/2$$

else:

REPLY



Rafia says

JANUARY 13, 2024 AT 8:06 PM

35.0

(just add command: print(a) at end of code in main body of program)

REPLY



Salman Shaikh says

MARCH 9, 2023 AT 4:23 PM

Q9. explain



Yavar Ahmed says

JANUARY 22, 2024 AT 3:13 AM

any non-zero value is considered TRUE. So it will evaluate to true

REPLY



Yusuf says

FEBRUARY 18, 2023 AT 4:12 PM

Explain the 12 th why 21????

REPLY



MGJ says

JULY 16, 2022 AT 9:49 AM

Answer step by step of question 5.

It will count 1 in range(10) will enter in the second range count 3 and it will add 1 to var, making 11. It will count 2 in range(10) will enter in the second range count 4 % 2 == 0, so it will continue and it will add 1 to var, making 12.

It will count 3 in range(10) will enter the second range count 5 and it will add 1 to var, making 13.

It will count 4 in range(10) will enter the second range count 6 % 2 == 0, so it will continue and add 1 to var, making 14. It will count 5 in range(10) will enter the second range count 7 and it will add 1 to var, making 15.

It will count 6 in range(10) will enter the second range count 8 % 2 == 0, so it will continue and add 1 to var, making 16. It will count 7 in range(10) will enter the second range count 9 and it will add 1 to var, making 17.

It will count 8 in range(10) will enter the second range count 10 % 2 == 0, so it will continue and add 1 to var, making 18.

It will count 9 in range(10) and it won't

go to the second range, because 10 is the limit and will add 1 to var, making 19. It will count 10 in range(10) and it won't go to the second range, because 10 is the limit and will add 1 to var, making 20. Finally, it won't go to range(10) because 10 is the limit and will add 1 from else, making 21.

REPLY



Chika Josephine says

MARCH 31, 2024 AT 11:01 PM

Please why is it counting 10 in range(10), I thought 10 is the limit in range(10). whereby we have 0,1,2,3,4,5,6,7,8,9 for range(10)

REPLY



Gabriel says

JULY 9, 2022 AT 11:35 AM

The question 11 is wrong. The output is a sequence of all the values "x" acquires during the iterations of the inner loop. You should use the correct indentation in order to show only the value 90

REPLY



Derrick says

FEBRUARY 19, 2022 AT 7:29 AM

Question 3, I put this into the online Python Visualizer. It has 234 steps for a quiz, a bit excessive imo.... Otherwise good practise.

REPLY



jayant says

JANUARY 13, 2022 AT 9:33 PM

please someone explain what is happening in question no 5?i dont understand why the answer is 21.



SaidTahmaz says

JANUARY 15, 2022 AT 6:24 PM

All numbers except 0 are True in Python. For example, if you write code like that:

```
if 3456:
    print("a")
else:
    print('b')

It will return a. 3456 can be

But if code is written like

if 0:
    print("a")
else:
    print('b')
```

```
It will return b. Because 0
```



Ashok says

MARCH 1, 2022 AT 1:17 PM

hi there, answer to your query for Q-5:

the nested loop will run only twice every time, each time it will add 1 value from the loop and another 1 value from the else part. So, since the loop range is 10, that would change to 21.

For example: try the below code you will get a similar answer only since the nested loop will break when the value is 3 itself.

```
var = 10
for i in range(10):
    for j in range(2, 3, 1):
```



Mehul says

APRIL 24, 2022 AT 7:24 PM

I didn't get it if possible can you upload a detail answere

REPLY



Muster peace says

MAY 12, 2022 AT 2:10 AM

they make mistake the correct answer is 30

REPLY



Petra J. says

SEPTEMBER 27, 2021 AT 8:58 PM

Can you please explain how does the code in the 1st question works? I don't get why it is 21 and ot 10.

REPLY



Beti says

FEBRUARY 20, 2022 AT 6:03 AM

Isn't it because the range is between -1 and -10? Thus the length is 9, so (x +1)*9, 10 times.

REPLY



Beti says

FEBRUARY 20, 2022 AT 6:04 AM

sorry this was for the question 3 comments below



Naresh malviya says

SEPTEMBER 11, 2021 AT 1:06 PM

i like it the quiz....one of the nice platform to update our skill

REPLY



pshetty says

AUGUST 29, 2021 AT 10:09 PM

I am unable to understand question 1 how the output is 90. Could someone please explain me the logic there

REPLY



candy says

MAY 27, 2023 AT 11:33 PM

x = 0

for i in range(10):

```
for j in range(-1, -10, -1):
    x += 1
    print(x)

Explanation
1st loop-> 10 times(0 to 9)
2nd loop-> 9 times(-1 to -9)
so 10 times 9 is 90. hope it helps
```



aehr says

REPLY

JULY 23, 2021 AT 4:44 AM

the answer for question 1 has a typo. since end=", " in the print statement, there should be a comma even after -4

REPLY



nick says

JULY 16, 2021 AT 8:19 PM

what if the output of value for nested

loop:

10

10 9

10 9 8

10987

109876

could u explain me the patter pls

REPLY



Piravy parker says

AUGUST 12, 2021 AT 3:36 PM

```
for i in range(6):
    for j in range(i):
        j=10-j
        print(j,end=" ")
    print()
```

REPLY

Rahul says

DECEMBER 9, 2021 AT 1:05 AM



10 10 9 10 9 8 10 9 8 7 10 9 8 7 6

REPLY



chris says

JUNE 23, 2021 AT 10:12 PM

This website is very poor and your 'quiz' does not work. The first answer has no correct answer, whether you select True or False. The rest of the answers all come back as wrong no matter what you answer. Very poor learning tool.

REPLY

Vishal says

JUNE 25, 2021 AT 9:58 PM



Hey Chris, We don't found such an error on our side. Please try again or try any other quiz and let us know if you get the same issue.

REPLY



jake says
OCTOBER 5, 2023 AT 6:51
PM

calm down chris you fool

REPLY



Yolan Ankaine says MAY 29, 2021 AT 1:15 AM

I dont understand why for question 10, the first option is incorrect.

That a for loop is used t for iterating over a sequence (that is either a list, a tuple, a

dictionary, a set, or a string).

Could you please explain.

REPLY



Shrut Shah says

FEBRUARY 17, 2021 AT 5:46 AM

In question 8 the output should be:

2,1,0,-1,-2,-3,-4,

You had missed the comma after the last digit

REPLY



Vishal says

MARCH 2, 2021 AT 8:57 PM

Yes, you are right.

REPLY



Jamal Akhtar says

FEBRUARY 9, 2021 AT 5:27 PM

Please explain ques.3



cool says

DECEMBER 5, 2020 AT 8:32 AM

well done. Nice quiz

REPLY



yyy says

DECEMBER 5, 2020 AT 8:30 AM

Nice work

Please give more questions like q 10

Thanks

???

REPLY



SSs says

OCTOBER 10, 2020 AT 2:06 PM

What is the meaning of if -3?

REPLY



deerejh says

OCTOBER 12, 2020 AT 7:25 PM

if it is -3

REPLY



S k jha says

NOVEMBER 13, 2020 AT 7:40 PM

True, because a number is treated as true in python

REPLY



Rizwan Hussain says

SEPTEMBER 22, 2020 AT 12:55 PM

4. What is the output of the following range() function the options are missing ',' at the end.

REPLY



Thank you so much!

REPLY



Simran says

AUGUST 19, 2020 AT 7:41 AM

Nyc this is good and this way I prepare my MCQ test on this website. Thankuu so much

REPLY



Olga Y says

JUNE 8, 2020 AT 10:03 AM

This whole website is amazing! it is just what I need for practicing my python programming knowledge. I love you questions too because they are very easy and basic in learning python. Really

important too.

Thank you so much!

REPLY



Vishal says

JUNE 10, 2020 AT 12:17 AM

You are welcome, Olga

REPLY

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