Name	•	

You will be provided with a Google Forms Virtual Scantron to use to submit your answers.

- 1. How many statements can appear in each block (the if and the else) in a conditional statement?
  - A. Just one.
  - B. Zero or more.
  - C. One or more.
  - D. One or more, and each must contain the same number.
- 2. What does the following code print (choose from output a, b, c or nothing)?

```
if 4 + 5 == 10:
    print("TRUE")
else:
    print("FALSE")
```

- A. TRUE
- B. FALSE
- C. TRUE on one line and FALSE on the next
- D. Nothing will be printed
- 3. What does the following code print?

```
if 4 + 5 == 10:
    print("TRUE")
else:
    print("FALSE")
print("TRUE")
```

A. TRUE

B. TRUE FALSE

C. FALSE TRUE D. TRUE

> FALSE TRUE

4. What does the following code print?

```
x = -10
if x < 0:
    print("The negative number ", x, " is not valid here.")
print("This is always printed")</pre>
```

- A. This **is** always printed
- B. The negative number -10 **is not** valid here. This **is** always printed
- C. The negative number -10 **is not** valid here.
- D. It will cause an error because every if must have an else clause.
- 5. Will the following code cause an error?

```
x = -10
if x < 0:
    print("The negative number ", x, " is not valid here.")
else:
    print(x, " is a positive number")
else:
    print("This is always printed")</pre>
```

- A. No
- B. Yes
- 6. Will the following code cause an error?

```
x = -10
if x < 0:
    print("The negative number ", x, " is not valid here.")
else:
    if x > 0:
        print(x, " is a positive number")
    else:
        print(x," is 0")
```

- A. No
- B. Yes

7. Which of I, II, and III below gives the same result as the following nested if?

```
# nested if-else statement
x = -10
if x < 0:
  print("The negative number ", x, " is not valid here.")
else:
if x > 0:
print(x, " is a positive number")
     print(x, " is 0")
I.
       x = -10
        if x < 0:
          print("The negative number ", x, " is not valid here.")
        else x > 0:
          print(x, " is a positive number")
        else:
          print(x, " is 0")
11.
       x = -10
        if x < 0:
          print("The negative number ", x, " is not valid here.")
        elif x > 0:
           print(x, " is a positive number")
        else:
          print(x, " is 0")
III.
       x = -10
        if x < 0:
          print("The negative number ", x, " is not valid here.")
           print(x, " is a positive number")
        else:
          print(x, " is 0")
        A. I only
        B. II only
        C. III only
        D. II and III
        E. I, II, and III
```

8. What will the following code print if x = 3, y = 5, and z = 2?

```
if x < y and x < z:
    print("a")
elif y < x and y < z:
    print("b")
else:
    print("c")</pre>
```

- A. a
- B. b
- C. c
- 9. Given the nested if-else below, what will be the value x when the code executed successfully

```
x = 0
a = 5
b = 5
if a > 0:
    if b < 0:
        x = x + 5
    elif a > 5:
        x = x + 4
    else:
        x = x + 3
else:
        x = x + 2
print(x)
```

- A. 0
- B. 4
- C. 2
- D. 3

10. Given the nested if-else below, what will be the value x when the code executed successfully

```
x = 0
a = 0
b = -5
if a > 0:
    if b < 0:
        x = x + 5
    elif a > 5:
        x = x + 4
    else:
        x = x + 3
else:
        x = x + 2
print(x)
```

- A. 2
- B. 0
- C. 3
- D. 4

11. What is the output of the following if statement

```
a, b = 12, 5
if a + b:
    print('True')
else:
    print('False')
```

- A. False
- B. True
- 12. In a Python program, a control structure:
  - A. Defines program-specific data structures
  - B. Directs the order of execution of the statements in the program
  - C. Dictates what happens before the program starts and after it terminates
  - D. None of the above

13. What will be output of this expression:

```
'p' + 'q' if '12'.isdigit() else 'r' + 's'
```

- A. pq
- B. rs
- C. pqrs
- D. pq12
- 14. The 'else' statement is optional in Python
  - A. TRUE
  - B. FALSE
- 15. What signifies the end of a statement block in Python?
  - A. A comment
  - B. A line that is indented less than the previous line
  - C. {
  - D. end
- 16. What is the output of the following code snippet:

```
if 'bar' in {'foo': 1, 'bar': 2, 'baz': 3}:
    print(1)
    print(2)
    if 'a' in 'qux':
        print(3)
print(4)
```

It doesn't generate any output.

- A. 1
- B. 1
  - 2
  - 3
  - 4
- C. 1
  - 2
  - 4