

Quiz Questions On Control Structure

1. In Python, `count=count+1` can be alternatively written as

- A. `count++`
- B. `count+=1`
- C. `count=+1`
- D. `count=+`

2. In which kind of loop, a Boolean expression is required?

- A. while
- B. for
- C. else
- D. nested for

3. Before which kind of loop, an initialization is required?

- A. for
- B. while
- C. else
- D. nested for

4. In Python, `range (10)` means

- A. 0 to 9
- B. 1 to 10
- C. 0 to 10
- D. 1 to 9

5. Execution of the body of a while loop continues

- A. till the test-condition evaluates to True
- B. till the test-condition evaluates to False
- C. until the test-condition evaluates to True
- D. None of the above

6. Which statement is used to transfer the control to next iteration of the loop without executing rest of the body of loop?

- A. break
- B. continue
- C. pass
- D. else if

7. Which control statement is used when we want to execute a sequence of statements a fixed number of times?

- A. while
- B. else if
- C. for
- D. else

8. What is the output of the following python program?

```
total=0
N=5
for i in range(1,N+1):
    for j in range(1,i+1):
        for k in range(1,j+1):
            total+=1
print(total)
```

- A. 33
- B. 25
- C. 35
- D. 30

9. What is the output of the following python program?

```
total=0
count=20
while(count>5):
    total+=count
    count-=1
print(total)
```

- A. 195
- B. 105
- C. 99
- D. 90

10. Fill up the following python code to get the output as 2.

```
s=0
for i in range(2,9):
    if (i%2==0):
        s=s+i
    _____
print(s)
```

- A. s=s+1
- B. pass
- C. continue
- D. break

11. *import* statement is used for importing a module that is

- A. Built-in
- B. User-defined
- C. Both built-in and user defined
- D. None of the above option

12. Which of following is not a decision-making statement.

- A. if-elif statement
- B. for statement
- C. if -else statement
- D. if statement

13. Which of following is a valid syntax

- A. if(n>=3)
- B. if(n>=3):
- C. if(n>=3);
- D. None

14. what is output of following

```
x,y=2,4
if(x+y=10):
    print("true")
else:
    print("false")
```

- A. true
- B. false
- C. None
- D. no output

15. What is the value of 'n' in following for loop to print following sequence

```
1 2 3 4 5 6 7 8
for i in range(1,n):
```

- A. 8
- B. 7
- C. 10
- D. 9

16. In a Python program, a control structure:

- A. Dictates what happens before the program starts and after it terminates
- B. Manages the input and output of control characters
- C. Directs the order of execution of the statements in the program
- D. Defines program-specific data structures

17. The _____ clause can occur with an if as well as with loops.

- A. else
- B. break
- C. continue
- D. None

18. What is the output of the following python program?

```
x = "abcdef"
i = "i"
```

```
while i in x:
    print(i,end = ' ')
```

- A. No output
- B. a b c d e f
- C. abcdef
- D. i i i i i

19. What does the following python program print?

```
for i in range(float('inf')):
    print(i)
```

- A. 0.0 0.1 0.2 0.3.....
- B. 0123.....
- C. 0.0 1.0 2.0 3.0.....
- D. Error

20. Fill up the blank space for getting desired pattern printed.

```
row = int(input("Enter number of rows"))
for i in range(row,__, -1):
    print(i,_____)
    j = i-1
    while ____:
        print(j,end = ' ')
        if j == 1:
            _____
            j -= ____
    print()
print(1)
```

Pattern is :

```
row = 5
5 4 3 2 1
4 3 2 1
3 2 1
2 1
1
row = 8
8 7 6 5 4 3 2 1
7 6 5 4 3 2 1
6 5 4 3 2 1
5 4 3 2 1
4 3 2 1
3 2 1
2 1
1
```

- A. 0, end = '\n', True, break, 1
- B. 1, end = ' ', True, break, 1
- C. 1, end = ' ', False, pass, 1
- D. 0, end = ' ', False, break, 0

21. Which control statement is used for iteratively executing a sequence of statements again and again based on a test-condition?

- A. for
- B. else
- C. while
- D. elif

22. Which control statement lets the program go through this piece of code without performing any action?

- A. elif
- B. pass
- C. continue
- D. break

23. Write the output of the following if
a = 9

```
if (a > 5 and a <=10):  
    print("Hello")  
else:  
    print("Bye")
```

- A. Hello
- B. 'Hello'
- C. "Hello"
- D. "Bye"

24. Write the output for the following if i=3, j=5, k=7:

```
if i<j:  
    if j < k:  
        i = j  
    else:  
        j = k  
else:  
    if j>k:  
        j = i  
    else:  
        i = k  
print(i,j,k)
```

- A. 5,5,7
- B. 3,5,7

- C. 4,5,7
- D. None of the above

25. Fill in the missing part of the following python code:

```
lst = [1, 2, 3, 4, 5]
for i in range (len (____)):
    print(lst[i], end = " ")
```

```
for j in range (0,10):
    print (j, end = " ")
```

- A. 5
- B. lst[0]
- C. lst:
- D. lst

26. Which control structure is used to check if a condition has been met or not?

- A. If statement
- B. Array
- C. Fixed loop
- D. Variables

27. Which amongst this is not a jump statement ?

- A. for
- B. break
- C. continue
- D. pass

28. Evaluate the given code and tell which single line of code can be used to replace this sample code?

```
num=[1,2,3,4,5,6,7,8,9]
x=0
for i in num:
    x=x+i
print(x)
```

- A. print(sum(range(0,9)))
- B. print(sum(range(1,10)))
- C. print(sum(range(1,9)))
- D. print(sum(1 to 10))

29. Analyse and predict the output for the following.

isCorrect = False

```
print("Correct" if isCorrect else "Incorrect")
```

- A. Nothing
- B. Correct
- C. Incorrect
- D. Correct Incorrect

30. Fill up the following code to return the sum of first n numbers

```
N = int(input('Enter the value of N:'))
```

```
Sum = 0
```

```
For -----:
```

```
    Sum = Sum + i
```

```
print(Sum)
```

- A. i in range(1,N)
- B. i in sum(1,N+1)
- C. i in range(1,N/2)
- D. i in range(1,N+1)

31. Which of the following statements is true:

- A. 'else' statement is a must if you have used 'if'
- B. 'else' and 'elif' are optional while defining a conditional block
- C. 'if' statement can only be used once in a program
- D. Even if the 'if' block is true, the 'else' block is checked

32. How do you define a block of statements in control structures in Python?

- A. Using { }
- B. Using ()
- C. Using left indentation
- D. Using right indentation

33. What is the output of the following python statement?

```
a=2
```

```
b=3
```

```
if a+b:
```

```
    print('true')
```

```
else:
```

```
    print('false')
```

- A. true
- B. false
- C. Syntax error
- D. Nothing will be printed

34. What does the following python code print?

```
for i in range(-3):
```

```
    print('Enjoy !',end=' ')
```

- A. Enjoy!
- B. Enjoy! Enjoy! Enjoy!
- C. Nothing will be printed
- D. Enjoy! 3

35. Fill up the following python code that prints first 'n' natural numbers.

```
for i in _____:
```

```
    print(i)
```

- A. range(99)
- B. range(1,101)
- C. range(0,100)
- D. range(1,100)

36. What keyword would you use to add an alternative condition to an if statement?

- A. else if
- B. elseif
- C. elif
- D. None of the above

37. Python programming language allows to use one loop inside another loop known as?

- A. switch
- B. foreach
- C. nested
- D. forall

38. What is output of following program:

```
A = 12345678
summ = 0
while A>0:
    d = A%10
    if d%2==0:
        summ = summ + d
    A = A//10
print(summ)
```

- A. 36
- B. 4
- C. 16
- D. 20

39. What is output of following program:

```
n='10001'
s=0
for i in n:
    s=s+int(i)
print(s)
```

- A. 0
- B. 1
- C. 2
- D. 3

40. Consider following python code and its output. Fill the blank space

```
def rightTriangle(nRows):
```



```

for i in range(1,nRows+1):
    print(.....)
nRows=int(input("enter number of rows: "))
print(rightTriangle(nRows))

```

OUTPUT:

```

#
# #
# # #
# # # #
# # # # #
# # # # # #
# # # # # # #

```

None

- A. ' #' * i
- B. ' * ' * i
- C. ' #' # i
- D. ' * ' # i

41. In python, if statements cannot be used as:

- A. if-elif ladder
- B. if-else statement
- C. nested if
- D. if else-if

42. Maximum no. of arguments allowed in for loop range is:

- A. 1
- B. 2
- C. 3
- D. More than 3

43. What is the output of the following python program?

```

for i in range(4):
    if(i==2):
        continue
    print(i, end=' ')

```

- A. 0 1 3
- B. 1 2 3
- C. 0 1 2 3
- D. None of the above

44. What does the following python program?

```

i=1
while i<=5:
    if(i==3):
        continue
    print(i, end=' ')
    i=i+1

```

- A. 1 2 4 5
- B. 1 2 3 4 5
- C. 1 2 4
- D. 1 2

45. Fill up the following python code which prints the factorial of 10.

```
fact=____  
for i in range(10):  
    fact=fact*____  
print(fact)
```

- A. 0;(i+1)
- B. 1;(i+1)
- C. 10;i
- D. None of the above

1. B
2. A
3. B
4. A
5. A
6. B
7. C
8. C
9. A
10. D
11. A
12. B
13. B
14. B
15. D
16. C
17. A
18. A
19. D
20. B
21. C
22. B
23. C
24. A
25. D
26. A
27. A
28. B
29. C
30. D
31. B
32. D
33. A
34. C
35. B
36. C
37. C
38. D
39. C
40. A
41. D
42. C
43. A
44. D
45. B