

# Question- Answers

## Low Achievers

### Python Control Statements

1. Which of the following is not used as loop in Python?

- A. for loop
- B. while loop
- C. do-while loop
- D. None of the above

**Ans : C**

**Explanation:** do-while loop is not used as loop in Python.

2. Which of the following is True regarding loops in Python?

- A. Loops should be ended with keyword "end".
- B. No loop can be used to iterate through the elements of strings.
- C. Keyword "break" can be used to bring control out of the current loop.
- D. Keyword "continue" is used to continue with the remaining statements inside the loop.

**Ans : C**

**Explanation:** Keyword break can be used to bring control out of the current loop statement is True regarding loops in Python.

3. How many times the loop will run?

```
i=2
while(i>0):
    i=i-1
```

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

**Ans : A**

**Explanation:** The loop will run 2 times.

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

```
list1 = [3 , 2 , 5 , 6 , 0 , 7, 9]
sum = 0
sum1 = 0
for elem in list1:
    if (elem % 2 == 0):
        sum = sum + elem
        continue
    if (elem % 3 == 0):
        sum1 = sum1 + elem
print(sum , end=" ")
print(sum1)
```

- A. 8 9
- B. 8 3
- C. 2 3
- D. 8 12

**Ans : D**

**Explanation:** The output of the following python code is 8 12.

5. Which one of the following is a valid Python if statement:

- A. if a>=2 :
- B. if (a >= 2)
- C. if (a => 22)
- D. if a >= 22

**Ans : A**

**Explanation:** If statement always ended with colon (:). So, option A is correct.

6. 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

**Ans : C**

**Explanation:** elif is used to add an alternative condition to an if statement. So, option C is correct.

7. Can we write if/else into one line in python?

- A. Yes
- B. No
- C. if/else not used in python
- D. None of the above

**Ans : A**

**Explanation:** Yes, we can write if/else in one line. For eg

```
a=int(input("Enter Value: "))
```

```
i = 5 if a > 7 else 0      # print(i)      So, option A is correct.
```

8. 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

**Ans : B**

**Explanation:** Control structures determine which statements in the program will be executed and in what order, allowing for statements to be skipped over or executed repeatedly. So, option B is correct.

9. Which statement will check if a is equal to b?

- A. if a = b:
- B. if a == b:
- C. if a === c:
- D. if a == b

**Ans : B**

**Explanation:** if a == b: statement will check if a is equal to b. So, option B is correct.

10. Does python have switch case statement?

- A. True
- B. False
- C. Python has switch statement but we can not use it.
- D. None of the above

**Ans : B**

**Explanation:** Python does not have switch case statement. So, option B is correct.

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

```
n=7
c=0
while(n):
    if(n>5):
        c=c+n-1
        n=n-1
    else:
        break
print(n,"",c)
```

- A. 5, 11
- B. 11, 5
- C. 3, 5
- D. 2, 5

**Ans : A**

**Explanation:** 5 11 will be the output of given Python code.

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

```
str1="hello"
c=0
for x in str1:
    if(x!="l"):
        c=c+1
    else:
        pass
print(c)
```

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

**Ans : D**

**Explanation:** 3 will be the output of given Python code.

13. Which of the following Python code will give different output from the others?

- A. 

```
for i in range(0,5):  
    print(i)
```
- B. 

```
for j in [0,1,2,3,4]:  
    print(j)
```
- C. 

```
for k in [0,1,2,3,4,5]:  
    print(k)
```
- D. 

```
for l in range(0,5,1):  
    print(l)
```

**Ans : C**

**Explanation:** Option C python code will give different output from the others.

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

- ```
for i in range(0,2,-1):  
    print("Hello")
```
- A. Hello
  - B. Hello Hello
  - C. No Output
  - D. Error

**Ans : C**

**Explanation:** There will be no output of the following python code.

15. Which of the following is a valid for loop in Python?

- A. 

```
for(i=0; i < n; i++)
```
- B. 

```
for i in range(0,5):
```
- C. 

```
for i in range(0,5)
```
- D. 

```
for i in range(5)
```

**Ans : B**

**Explanation:** For statement always ended with colon (:). So, option B is correct.

16. Which of the following sequences would be generated by the given line of code?

range (5, 0, -2)

- A. 5 4 3 2 1 0 -1
- B. 5 4 3 2 1 0
- C. 5 3 1
- D. None of the above

**Ans : C**

**Explanation:** The initial value is 5 which is decreased by 2 till 0 so we get 5, then 2 is decreased so we get 3 then the same thing repeated we get 1 and now when 2 is decreased we get -1 which is less than 0 so we stop and hence we get 5 3 1. So, option C is correct.

17. A while loop in Python is used for what type of iteration?

- A. indefinite
- B. discriminant
- C. definite
- D. indeterminate

**Ans : A**

**Explanation:** A while loop implements indefinite iteration, where the number of times the loop will be executed is not specified explicitly in advance. So, option A is correct.

18. When does the else statement written after loop executes?

- A. When break statement is executed in the loop
- B. When loop condition becomes false
- C. Else statement is always executed
- D. None of the above

**Ans : B**

**Explanation:** Else statement after loop will be executed only when the loop condition becomes false. So, option B is correct.

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

```
x = "abcdef"
i = "i"
while i in x:
    print(i, end=" ")
A. a b c d e f
B. abcdef
C. i i i i i.....
D. No Output
```

**Ans : D**

**Explanation:** There will be no output since there is no i in the string x. So, option D is correct.

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

```
x = "abcd"
for i in range(len(x)):
    print(i)
A. abcd
B. 0 1 2 3
C. 1 2 3 4
D. a b c d
```

**Ans : B**

**Explanation:** len(x) will give 4 and the loop will run for 4 times starting from 0. Hence output will be 0 1 2 3. So, option B is correct.

21. What will be the output of the following code?

```
x = 12
for i in x:
    print(i)
A. 12
B. 1 2
C. Error
D. None of the above
```

**Ans : C**

**Explanation:**

Objects of type int are not iterable. So, option C is correct.

22. What is the output of the following for loop and range() function for num in range(-2,-5,-1):

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

- A. -2, -1, -3, -4
- B. -2, -1, 0, 1, 2, 3,
- C. -2, -1, 0
- D. -2, -3, -4,

**Ans. D**

**Explanation:** range() start from -2 and with decreasing the value it will run one step before -5, that is -4. So, option D is correct.

23. What is the output of the following?

```
i = 2
```

```
while True:
```

```
    if i%3 == 0:
```

```
        break
```

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

```
    i += 2
```

- (A) 2 4 6 8 10 ...
- (B) 2 4
- (C) 2 3
- (D) error

**Ans. B**

**Explanation:** The numbers 2 and 4 are printed. The next value of i is 6 which is divisible by 3 and hence control exits the loop.

24. What is the output of the following?

```
n=7
```

```
c=0
```

```
while(n):
```

```
    if(n>5):
```

```
        c=c+n-1
```

```
        n=n-1
```

```
    else:
```

```
        break
```

```
print(n, " ",c)
```

- A. 11 5
- B. 5 11
- C. 7 11
- D. 11 7

**Ans. B**



25. What is the output of the following?

```
str1="Jhunjhunu"  
c=0  
for x in str1:  
    if(x!="u"):  
        c=c+1  
    else:  
        pass  
print(c)
```

- A. 2
- B. 3
- C. 6
- D. 9

**Ans. C**

**Explanation:** The value of c will not increase when the condition meets False result. The pass statement will do nothing except transfer control.

26. Give the correct output of following code.

```
num_sum = 0  
count = 0  
while(count<10):  
    num_sum = num_sum + count  
    count = count + 1  
    if count== 5:  
        break  
print("Sum of",count,"integers:", num_sum)
```

- A. Sum of 5 integers: 10
- B. Sum of 10 integers: 45
- C. Sum of 9 integers: 36
- D. Sum of 0 integers: 0

**Ans. A**

**Explanation:** The break statement, quit the while loop when it encounters the value of count=5. So the option A is correct Answer.

27. Give the correct output of following code.

```
for x in range(7):
    if (x == 3 or x==6):
        continue
    print(x,end=" ")
```

- A. 0 1 2 4 5 6
- B. 0 1 2 4 5
- C. 0 1 2 3 4 5
- D. None of above

**Ans. B**

**Explanation:** When if(x==3 or x==6) encounter True then the continue statement transfer the control to the next iteration and skipped over the print statement given below it.

28. How many times the while loop will execute?

```
x = 10;
while (True):
    print(x)
    x += 1
```

- A. ZERO times
- B. 10 times
- C. Infinite time
- D. Syntax Error

**Ans. C**

**Explanation:** Condition while(True): will True for all time and loop goes in endless iteration. So, option C is correct.

29. Give the correct output.

```
color = ["Red", "Black", "Pink"]
flower=["Rose", "Lilly", "Lotus", "Tulip"]
for c in color:
    for f in flower:
        if(c=="Black" or f=="Lotus"):
            break
        print(c,":",f)
```

A.  
Black : Rose  
Black : Lilly  
Black : Lotus  
Black : Tulip

B.  
Red : Rose  
Red : Lilly  
Pink : Rose  
Pink : Lilly

C.  
Rad : Rose  
Black : Lilly  
Pink : Lotus

D.  
Pink : Rose  
Pink: Lilly  
Red: Lotus  
Red : Tulip

**Ans. B**

**Explanation:** if(c=="Black" or f=="Lotus"): condition meets the True result for Black color and Lotus Flower. The break statement, quit the inner loop and hence print() statement will not execute. So, Option B is correct Output.

**30.** Predict the correct output

```
print("%09.5f" % 5.1234517890)
```

- A. 5.12345
- B. \_ \_ 5.12345
- C. 000000005.12345
- D. 005.12346

**Ans. B**

**Explanation:** %09.f, directs to Python Interpreter that total width of output should be 9. The decimal point requires 1 size, after decimal point width should be 5 so integral size will be 3. Blank spaces at left side filled with 0 (Output is right justified). Hence option D is correct.