

Quiz : 31st Jan Quiz-2

8 out of 10 correct

1. Which of the following statement is correct?
- True or False and True \rightarrow True
not(True) or False and True \rightarrow True
False or False and not(True) \rightarrow False
- ☐ 1 and 2 are correct
- ☒ 1, and 3 are correct
- ☐ 1, 2, 3, and 4 are correct
- ☐ None

Explanation: The first expression will evaluate to True because True or False evaluates to True and True and True will be True. The second expression will evaluate as False because not(True) or False will evaluate as False, and False and True will evaluate as False. For the third expression False or False will evaluate as False and False and not(True) will evaluate as False.

2. Which of the following is correct for a string?
1. String can be indexed.
2. String can be sliced.
3. String can be concatenated.
4. String items can be reassigned.
- ☐ 1 and 2 are correct
- ☒ 1, 2, and 3 are correct
- ☐ 1, 2, and 4 are correct
- ☐ All statements are correct.

Explanation: Strings can be indexed, sliced, and can be concatenated but string items can not be assigned.

3. Which of the following is correct in respect of the string Method?
- isalnum(): Returns True if all characters in the string are alphanumeric.
isalpha(): Returns True if all characters in the string are in the alphabet.
isnumeric(): Returns True if all characters in the string are numeric.
- ☐ 1, and 2 are correct.
- ☐ 1, and 3 are correct.
- ☒ 1, 2, and 3 are correct.
- ☐ None

Explanation: isalnum(), isalpha(), and isnumeric() are the default methods for strings.

4. Which of the following are used in python for string formatting?
- f string method
format() method
- ☐ Option 1 is correct.
- ☐ Option 2 is correct
- ☒ Both options are correct.
- ☐ None

Explanation: F string is the most popular method and is used by most developers whereas the format() method was more popular before python version 3.8. But both methods can be used to format the string.

5. What will be the output of the following code?
- ```
string = "p w s k i l l s"
"".join(string.replace(" ", ""))
```
- ☐ "p w s k i l l s"
- ☒ "pwskills"
- ☐ "P W S K I L L S"
- ☐ "PWSKILLS"

**Explanation:** Replace method will replace the whitespace in the string with nothing i.e. it will remove the whitespace. But the join method will again introduce the space in the string as we are joining the string with whitespace.

6. Which of the following is an incorrect statement with respect to python operators?
- Assignment operators: =, +=, /=, %=
- Comparison operators: ==, !=, >, <, >=, <=
- Logical operators: and, or, not
- Membership operators: in, not in, is, is not
- ☐ 1 and 2 are correct.
- ☒ 1 and 3 are correct.
- ☐ 1, 2, 3, and 4 are correct.
- ☐ None

**Explanation:** In the first statement all are assignment operators. In the second statement >>= is the assignment operator and the rest are comparison operators. In the third statement, all are logical operators, and in the fourth statement is and 'is not' is the identity operators whereas the rest are Membership operators.

7. What will be the output of the following code?
- ```
"pwskills"[:-1].upper().replace("SLIKSWP", "pwskills").islower()
```
- ☐ pwskills
- ☐ SLIKSWP
- ☒ False
- ☐ True

Explanation: Initially the string pwskills will be reversed and converted to uppercase and this upper-cased string will be replaced with the original string. The original string is lowercase hence islower() will return True.

8. What will be the output of the following code?
- ```
s = "I want to become a data scientist"
for i in s.split():
 i.capitalize()
print(i.title())
```
- ☒ Each word is capitalized and printed in a new line.
- ☐ Each word is lowercase and printed in a single line.
- ☐ Each word is uppercase and printed in a new line
- ☐ None

**Explanation:** s.split will create a list of words in s. Then using for loop we will capitalize each word. But this will not be permanent as we are not assigning this result to i again. The final statement will capitalize the first letter of each word and print each word in a new line.

9. Which method is used in strings to justify the string?
- center()  
ljust()  
rjust()
- ☐ 1 and 2 are correct
- ☐ 1 and 3 are correct
- ☐ 2 and 3 are correct
- ☒ 1, 2, and 3 are correct.

**Explanation:** center() method returns a centered string. ljust() method returns a left-justified string, and rjust() method returns a right-justified string. All three methods are used for aligning the string to the center, left, and right.

10. Can string characters be assigned a different value? or the following code is correct:
- ```
"pwskills"[0]="P"
```
- ☐ Yes
- ☒ No
- ☐ Insufficient data
- ☐ None

Explanation: The item assignment is not possible in string. The above code will throw a TypeError.

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