

CSI 31 Chapter 5 Answers

True/False

1. **False** (single quotes can also be used)
2. True
3. False (recall \n)
4. True (concatenation)
5. True
6. True
7. True
8. False (substitution cipher is a very weak form of encryption)
9. False (append method can be used to add an item to the end of the list)
10. False (it is called "opening a file")

Multiple Choice:

1. d)
2. c)
3. a)
4. c)
5. c)
6. d)
7. d)
8. c)
9. a)
10. a)

Discussion:

1. use Python interactive window to check the answers

2.

- | | |
|--|---------------------------|
| (a) s2.upper()[0:-1] | (b) s2+s1+s2 |
| (c) (s1.title()+ ' '+s2.title() + " ")*3 | (d) s1 |
| (e) s1.split('a') | (f) ".join(s1.split('a')) |

3. use Python interactive window to check the answers

4.

(a) "Looks like {1} and {0} for breakfast".format("eggs","spam")

result: 'Looks like spam and eggs for breakfast'

(b) "There is {0} {1} {2} {3}".format(1,"spam",4,"you")

result: 'There is 1 spam 4 you'

(c) "Hello {0}".format("Susan","Computerwell")

result: 'Hello Susan'

comment: only the first argument/parameter of the formatting function was used ("Susan")

(d) "{0:0.2f} {0:0.2f}".format(2.3, 2.3468)

result: '2.30 2.30'

comment: only the first argument/parameter of the formatting function was used (2.3)

(e) "{7.5f} {7.5f}".format(2.3, 2.3468)

result:

Traceback (most recent call last):

File "<pyshell#13>", line 1, in <module>

"{7.5f} {7.5f}".format(2.3, 2.3468)

IndexError: tuple index out of range

- this error message says that we tried to access the 7th parameter of the formatting function, which has only two parameters: 2.3 and 2.3468.

(f) "Time left {0:02}:{1:05.2f}".format(1, 37.374)

result: 'Time left 01:37.37'

comment: take a look at the other similar runs and try to understand what does the 0 (in front of 5, or in front of 2) stands for, and what does 5 stand for (as well as the first 2)

"Time left {0:02}:{1:06.2f}".format(1, 37.374)

'Time left 01:037.37'

>>> "Time left {0:02}:{1:5.2f}".format(1, 37.374)

'Time left 01:37.37'

>>> "Time left {0:02}:{1:6.2f}".format(1, 37.374)

'Time left 01: 37.37'

(g) "{1:3}".format("14")

result:

Traceback (most recent call last):

File "<pyshell#18>", line 1, in <module>

"{1:3}".format("14")

IndexError: tuple index out of range

- this is similar to the case is item (e): format has only one parameter, "14", and we are trying to access its second parameter, by doing {1:.....}