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HW #5

True or False:
1. A python string literal is always enclosed in double quotes.
   a. False. A python literal can be enclosed in single quotes.
2. The last character of a string *s* is at position `len(s)-1`.
   a. True.
3. A string always contains a single line of text.
   a. False. A string can contain multiple lines of text using the line break character "`\n`."
4. In python, "4" + "5" is "45."
   a. True. "4" and "5" are concatenated together into "45."
5. Python lists are mutable, but strings are not.
   a. True. Lists can be mutated with `list.append(x)`, but strings can be mutated.
6. ASCII is a standard for representing characters with numeric codes.
   a. True.
7. The split method breaks a string into a list. Join does the opposite.
   a. True.
8. A substitution cipher is a good way to keep valuable information secure.
   a. False. A substitution cipher can be brute-forced easily, so it isn't a very good way to store sensitive data.
9. The add method can be used to add strings to a list.
   a. False. Append can be used to add strings to a list.
10. The process of associating a file with an object is called "reading" the file.
   a. False. That process is opening a file.

Multiple Choice
1. **Accessing a single character in a string is called**
   d. Indexing is accessing a single character of an array.
2. **Which of the following is the same as s[0:-1]**
   c. s[:len(s)-1] is the equivalent because len(s)-1 is the last character of a string.
3. **Which of the following gives the unicode value of character?**
   a. ord() will return the Unicode value of a character.
4. **Which of the following can not be used to convert a string of digits into a number?**
   c. str() can't be used to convert a string of digits into a number. str() can convert numbers to a string.
5. **A successor to ASCII that includes characters from all written languages is**
   c. Unicode is the successor of ASCII.
6. **Which string method converts all the characters of a string to uppercase**
   d. upper() will convert the entire string to uppercase.

7. **The string "slots" that are filled in by the format method are marked by:**
   d. {} are the slots with string formatting.

8. **Which of the following is not a file-reading method in Python?**

    c. readall is not a file-reading method.

9. **The term for a program that does I/O with files is**

    c. A batch program.

10. **Before reading or writing to a file, a file object Must be created via**

a.   An open statement.