CPSC 1301, Computer Science I Homework 05

Chapter 7, Learning Python

Readings

Read chapter 7 in the Learning Python book.

Discussion Questions

Answer the discussion questions in writing.

- 1. In Python, strings are classified as *immutable sequences*. This means two things. What are they?
- 2. Can you use both single quotes (') and double quotes (") to delimit a string?
- 3. Why does Python support both single and double quotes?
- 4. What is an escape character? Give three examples of escape characters.
- 5. What is a raw string? How do you create a raw string? What are they good for?
- 6. Why would you use a triple quoted string?
- 7. At the command prompt, what do the following Python expressions evaluate to:

• s = 'spam'	• s[1:]
• s[0]	• s[2:]
• s[1]	• s[3:]
• s[2]	• s[4:]
• s[3]	• s[:4]
• s[-1]	• s[:3]
• s[-2]	• s[:2]
• s[-3]	• s[:1]
• s[-4]	• s[:0]
• s[0:]	• s[0:4]

- 8. How do you convert a string to an integer, e.g., convert the string "42" to the iteger 42?
- 9. How do you find the ASCII value of a character?
- 10. Do string methods generate new objects or do they mutate the current object in place?
- 11. What is the difference between a method call and a function call?
- 12. In string format expressions, what goes on the left side of the % operator? What goes on the right side of the % operator?
- 13. Review the Test Your Knowledge Quiz at the end of the chapter.