CSc 110 Lists of/and Strings

Adriana Picoral

Announcements

- D2L Grades
- Final exam = 15% of final grade
- Group and Individual exams = 7.5% each

What does .join() do?

- The join() function is a built-in function (method) for strings
- Usage:

string.join(list)

- Concatenates all of the elements in list, putting string in-between each element
- Can think of it as the reverse of what split does

Activity

What will it print?

```
names = ["Ann", "Josephine", "Peter", "Ethan", "Alex"]
separator = ", "
all_names = separator.join(names)
print("Students: " + all_names)
```

What will it print?

```
word = "coding"
print("-".join(word))
```

What will it print?

```
chars = "a b c d a d e f a"
char list = chars.split(" ")
count = char list.count("a")
print(count)
chars = "a b c d a d e f a"
count = chars.count("a")
print(count)
```

Write the function most_used_char

- The function should have one parameter a string
- Should return the character that occurs most often in the string
- You can use the count() function
- most_used_char('one two three') should return 'e'
- most_used_char('mississippians') should return 's'
- most_used_char('radaration') should return 'a'
- most_used_char('at one time you are is i ') should return ' '

implement swap_words

- The swap_words function should have three string parameter variables
 - The first: a sentence. The second: a word. The third: a word
- Should return a string that has the two words (second and third parameters) swapped
- swap_words('the cold night was not warm', 'warm', 'cold')
 - Should return: 'the warm night was not cold'
- swap_words('the first day after the second', 'second', 'first')
 - Should return: 'the second day after the first'

What is a palindrome?

 A palindrome is a string that reads the same both forwards and backwards. Some examples of palindromes:

- 'civic'
- 'radar'
- 'rotator'

Activity

Write the function is_palindrome_word

- A palindrome is a string that reads the same both forwards and backwards. Some examples of palindromes:
 - o civic, radar, rotator
- is_palindrome_word('civic') should return True
- is_palindrome_word('non') should return True
- is_palindrome_word('contemporary') should return False

Write the function is_palindrome

Ignore spaces

- is_palindrome('otto sees otto') should return True
- is_palindrome('olson is in oslo') should return True
- is_palindrome('radar') should return True
- is palindrome('one two three') should return False
- is_palindrome('three') should return False