MOD 3 DAY 3 - CODE EXPLAINED - Python Deeper Div

Tuesday, September 26, 2023 8:07 PM

AC⁻

import os

import csv

Open and read csv

- # Read the header row first (skip this part if there is no header)
- # Read through each row of data after the header
 - # Convert row to float and compare to grams of fiber

BONUS

import os

import csv

- # @NOTE: This time, we do not use `next(csv_reader)` because there is no header for this file
- # Read through each row of data after the header
 - # Convert row to float and compare to grams of fiber

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IVITY 1

į

" content to trout and compare to grains or mad

ACTIVITY 2

Unlike lists, dictionaries store information in pairs
#
Create a dictionary to hold the actor's names.
Create a dictionary using the built-in function.
A dictionary of an actor.
Add an actor to the dictionary with the key "name"
and the value "Denzel Washington".
Print the actors dictionary.
Print only the actor.
A list of actors
Overwrite the value, "Denzel Washington", with the list of actors.
Print the first actor
#
A dictionary can contain multiple pairs of information
#
A dictionary can contain multiple types of information
A dictionary can even contain another dictionary

ACTIVITY 3

- # Dictionary full of info
- # Print out results are stored in the dictionary

ACTIVITY 4

fish = "halibut" # Loop through each letter in the string

and push to an array

- # List comprehensions provide concise syntax for creating lists
- # We can manipulate each element as we go
- # List Comprehension for the above
- # We can also add conditional logic (if statements) to a list comprehension
- # List Comprehension with conditional

ACTIVITY 5

- # initialize list of names for user input
- # Note that the i is unused and could be replaced by an _
- # Use a list comprehension to create a list of lowercased names
- # Use a list comprehension to create a list of titlecased names from the
- # lowercased names. Reference:

Print the invitations

ACTIVITY 6

Basic Definition # code goes here # Simple Function with no parameters # you use parentheses to run the code in a function # Simple function with one parameter # Think of the parameter `message` as a variable # You assign the string "Hello, World!" when you call the function # This is like saying `message = "Hello, World!"` # Functions can have more than one parameter # Supply the arguments (values) when calling the function # @NOTE: Order is important when supplying arguments! # We can also specify default values for parameters # Make a quesadilla using the default topping # Make a quesadilla with a new topping # Functions can return a value

You can save the value that is returned

You can also just print the return value of a function

ACTIVITY 7

- # Write a function that returns the arithmetic average for a list of numbers
- # Test your function with the following:

ACTIVITY 8

import os

import csv

- # Path to collect data from the Resources folder
- # Define the function and have it accept the 'state data' as its sole parameter
- # For readability, it can help to assign your values to variables with descriptive names
 - # CSV headers: State or jurisdiction, Adjusted cohort (Public), Completers (Public),
 - # Adjusted cohort (Nonprofit Private), Completers (Nonprofit Private),
 - # Adjusted cohort (For-profit Private), Completers (For-profit Private)
 - # Total students can be found by adding students of each category together
 - # Total graduates can be found by adding graduates of each category together
- # Public grad rate can be found by dividing the total public graduates by the total public
 - # students and multiplying by 100

Note that some states do not have nonprofit or forprofit private schools, so data must be checked

for zeros

Nonprofit grad rate can be found by dividing the total nonprofit graduates by the total nonprofit

students and multiplying by 100

Forprofit grad rate can be found by dividing the total forprofit graduates by the total forprofit

students and multiplying by 100

Calculate the overall graduation rate

If the overall graduation rate is over 50, message is "Graduation success".

Otherwise it is "State needs improvement".

Print out the state's name and their graduation rates

Read in the CSV file

Split the data on commas

Prompt the user for what state they would like to search for

Loop through the data

If the state's name in a row is equal to that which the user input, run the 'print_percentages()' function