



21.SP.CIS....



RP

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Functions, Lists, and Dictionaries



Instructions

Instructions:

- Create a Jupyter notebook with a section for each of the assignments below.
- Attach a **PDF** file* showing completion of all steps.

* *Use the web browsers print to PDF.*

Functions (10 points)

Write a program to prompt the user for hours and rate per hour using input to compute gross pay. Award time-and-a-half for the hourly rate for all hours worked above 40 hours. Put the logic to do the computation of time-and-a-half in a function called `compute pay()` and use the function to do the computation.

The function should return a value. Use 45 hours and a rate of 10.50 per hour to test the program (the pay should be 498.75). You should use

input to read a string and `float()` to convert the string to a number.

Do not worry about error checking the user input unless you want to - you can assume the user types numbers properly. Do not name your variable `sum` or use the `sum()` function.

Lists (10 points)

Open the file [romeo.txt](#) and read it line by line. For each line, split the line into a list of words using the `split()` method. The program should build a list of words. When the program completes, sort (default sort) and print (horizontal or vertical print) the resulting words in alphabetical order.

Dictionaries (10 points)

Write a program to read through the [mbox-short.txt](#) file and figure out who has the sent the greatest number of mail messages.

The program looks for 'From ' lines and takes the second word of those lines as the person who sent the mail. The program creates a Python dictionary that maps the sender's mail address to a count of the number of times they appear in the file.

The assignment will help with obtaining mastery of CO1, TLO 1, TLO2, and TLO3.

[mbox-short \(1\).txt](#) [romeo.txt](#)

Submissions

No submissions yet. Drag and drop to upload your assignment below.

Drop files here, or click below!

Upload

Record ▼

Choose Existing

You can upload files up to a maximum of 1 GB.

Reflect in ePortfolio



Activity Details

Task: Submit to complete this assignment

Due February 14 at 11:30 PM

Ends Feb 21, 2021 11:30 PM

Last Visited Jan 27, 2021 1:29 PM