FANSHAWE
School of Applied
Science & Technology

TIME CONVERTER

PURPOSE

In this exercise, user is prompted for the time in seconds. The program will then calculate the number of minutes, hours, and days, then print out the results.

OBJECTIVES

After completing this exercise, you should be able to:

- Read data from the console
- Convert data from one type to another
- Perform simple operations on variables
- Print out variable values to the console
- Format strings

PROCEDURE

PREPARE PYTHON FILE

1. Create a Python file in the COMP-6060 workspace called COMP6060**INIT**Lab3-2.py where **INIT** is replaced with your own initials. So if your name is John Smith, the document will be called COMP6060**JS**Lab3-2.py
2. Print out the following to the console, replacing NAME with your name:
   `Welcome to NAME's time converter!`

PROMPT USER FOR SECONDS

1. Prompt the user for the number of seconds using the following sentence:
   `Please enter the number of seconds to be converted:`
2. Store the value in a variable with an appropriate name. Ensure it is casted to an appropriate type to perform math on this variable

CALCULATE TOTAL DAYS

1. Calculate the total whole days by dividing the total seconds by `24 * 60 * 60`. Don't calculate this number, simply place this multiplication in the Python code.
2. Store the resulting number of days in a variable with an appropriate name as an int value
3. Calculate the remainder of this division, and store in a variable called `remainder`

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Calculate Total Hours

1. Calculate the total whole hours by dividing the remainder of the previous calculation by `60 * 60`. Don't calculate this number, simply place this multiplication in the Python code.
2. Store the resulting number of hours in a variable with an appropriate name as an int value
3. Calculate the remainder of this division, and use the dual-purpose operator to overwrite the `remainder` variable

Calculate Total Minutes

1. Calculate the total whole minutes by dividing the remainder of the previous calculation by `60`. Don't calculate this number, simply place this multiplication in the Python code.
2. Store the resulting number of hours in a variable with an appropriate name as an int value

Calculate Remaining Seconds

1. Calculate the remainder of the previous division, which will result in the leftover seconds. Place in a variable with an appropriate name as an int value

Print Results

1. Print the seconds breakdown with the following structure using a formatted string literal: *`all_seconds`* `seconds is equivalent to` *`d`* `days` *`hh:mm:ss`*

Submission

1. Copy your code, and paste it in the submission file
2. Show results to Instructor

Expected Results

```
Welcome to Lynn's time converter!
Please enter the number of seconds to be converted: 98500
98500 is equivalent to 1 days 3:21:40
```

Student Name: _____ Instructor: _____

Date: _____