

ASSIGNMENT 1

Topic: Data Structure, Functions and Files in Python

Due: 1 week from announcement.

Given a data file that consists of an example daily sale information recorded manually for each of the transaction for a certain period. The information in the file consists of date, item name, amount sold, and price per unit.

```
1 2020-09-23 Item_A 5 1.90
2 2020-09-23 Item_B 6 1.20
3 2020-09-23 Item_A 2 1.90
4 2020-09-23 Item_B 3 1.20
5 2020-09-24 Item_A 13 1.90
... ..
```

Figure 1: example of the data

INSTRUCTIONS:

1. Reads the data file in Python.
2. Creates a function in Python called: **calculate_daily_sale** that:
 - a. Able to calculate and return the sale of each item for every day.
 - b. You need to determine the data structure for the returned information, where the returned result should be able to be accessed to show the sale of exact item on a specified day.
E.g.:
result ["2020-09-25"] *will returns the sale for each item on that day.*
result ["2020-09-25"] ["Item_B"] *will returns the sale of Item B on that day.*
3. Creates a function in Python called: **get_total_sale** that:
 - a. Able to combine the sale of a specific item throughout the period in the data file.
 - b. The function should receive ONE argument:
 - i. The result variable returned from **calculate_daily_sale**
 - c. The function should return the total sale of each item throughout the period.
4. Submit your Python Notebook in the E-Learning.