



Non Graded Challenge : Python Syntax, Variables, and Data Type

FTDS Phase 0 - Week 1

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Non Graded Challenge

Objective

This Non Graded Challenge was created to evaluate the concept of Python Syntax, Variable, and Data Type with the aim of:

1. Get a grip about python basic syntax.
2. Able to utilize python variable.
3. Able to implement python data type utilization.

Non Graded Challenge

Task #1

Given list of customer_id that doing transaction in 1 day:

```
customer_id = ['B818', 'A461', 'A092', 'A082', 'B341', 'A005', 'A092', 'A461',  
               'B219', 'B904', 'A901', 'A083', 'B904', 'A092', 'B341', 'B821',  
               'B341', 'B821', 'B904', 'B818', 'A901', 'A083', 'B818', 'A082',  
               'B219', 'B219', 'A083', 'A901', 'A082', 'B341', 'B341', 'A083',  
               'A082', 'B219', 'B439', 'A461', 'A005', 'A901', 'B341', 'A082',  
               'A083', 'A461', 'A083', 'A901', 'A461', 'A083', 'A082', 'A083',  
               'B341', 'A901', 'A082', 'A461', 'B219', 'A083', 'B818', 'B821',  
               'A092', 'B341', 'A461', 'A092', 'A083', 'B821', 'A092']
```

How many unique customer_id from above list?

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Task #2

Given list of:

Data = [1, 4, 9, 16, 25, 36, 49, 64, 81, 100]

Use indexing so you can get this output:

- a. 16
- b. [36, 49, 64, 81]
- c. [100, 81, 64, 49, 36, 25, 16, 9, 4, 1]

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Task #3

Given a dictionary of:

```
provinsi = {'Nanggroe Aceh Darussalam': 'Aceh',  
            'Sumatera Selatan': 'Palembang',  
            'Kalimantan Barat': 'Pontianak',  
            'Jawa Timur': 'Madiun',  
            'Sulawesi Selatan': 'Makassar',  
            'Maluku': 'Ambon'}
```

What python command can be use to:

- Get list of keys available in dictionary
- Change 'Jawa Timur' value from 'Madiun' to 'Surabaya'

Non Graded Challenge

Submission

1. Create a file to store your answers in *.ipynb*.
2. Save this assignment with filename : *h8dsft_ngc_python_syntax_and_variable.ipynb*.
3. Push your answer into your own GitHub repository.



Thank You