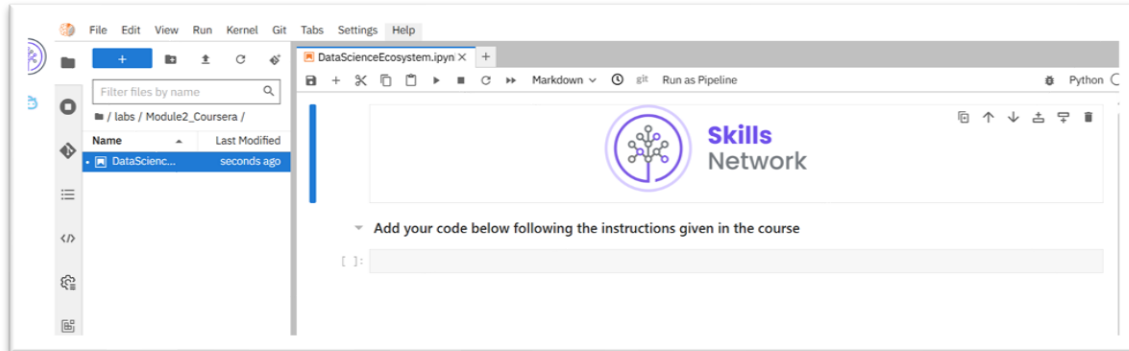


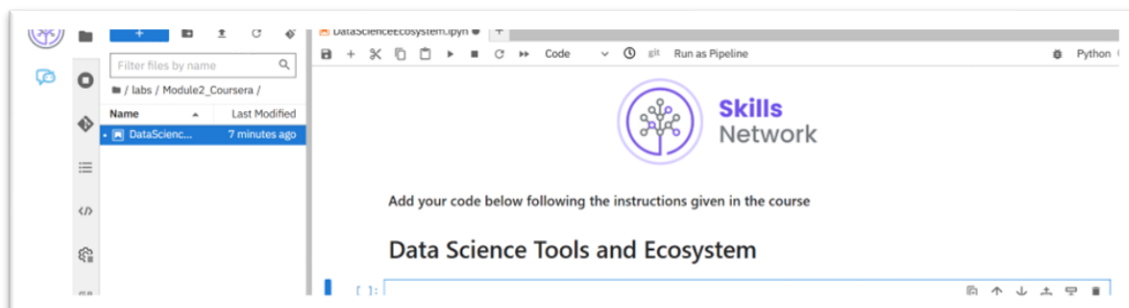
Final Assignment

Exercise 1: Create a Jupyter Notebook

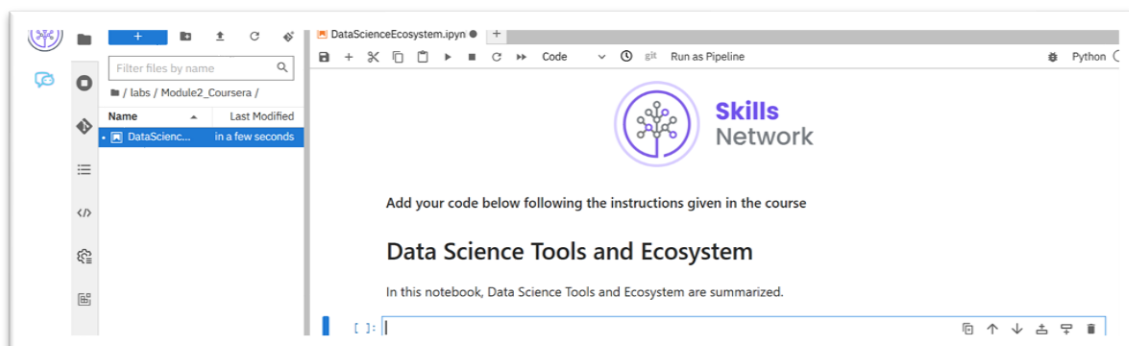
Create a new Jupyter notebook called **DataScienceEcosystem.ipynb**



Exercise 2: Create markdown cell with title of the notebook



Exercise 3 - Create a markdown cell for an introduction



Exercise 4 - Create a markdown cell to list data science languages

Data Science Tools and Ecosystem

In this notebook, Data Science Tools and Ecosystem are summarized.

Some of the popular languages that Data Scientists use are:

- Python
- R
- SQL

Exercise 5 - Create a markdown cell to list data science libraries

Some of the commonly used libraries used by Data Scientists include:

- Pandas
- NumPy
- Matplotlib

Exercise 6 - Create a markdown cell with a table of Data Science tools

Data Science Tools

Pandas

NumPy

Matplotlib

Exercise 7 - Create a markdown cell introducing arithmetic expression examples

Below are a few examples of evaluating arithmetic expressions in Python.

Exercise 8 - Create a code cell to multiply and add numbers

Below are a few examples of evaluating arithmetic expressions in Python.

```
[1]: # This a simple arithmetic expression to mutiply then add integers  
     (3*4)+5
```

```
[1]: 17
```

Exercise 9 - Create a code cell to convert minutes to hours

```
5]: # This will convert 200 minutes to hours by diving by 60  
    hours = 200/60  
    hours
```

```
5]: 3.3333333333333335
```

Exercise 10 - Insert a markdown cell to list Objectives

Data Science Tools and Ecosystem

In this notebook, Data Science Tools and Ecosystem are summarized.

Objectives:

- List popular languages for Data Science.
- Explain the basics of machine learning.
- Demonstrate data visualization techniques.
- Introduce key concepts in statistical analysis.

Exercise 11 - Create a markdown cell to indicate the Author's name

Author

Author's Name: Haila



```
[ ]:
```



Exercise 12 - Share your notebook through GitHub

[Haila-Abdullah/Tools-for-Data-Science_coursera \(github.com\)](https://github.com/Haila-Abdullah/Tools-for-Data-Science_coursera)

Exercise 13 - Take a screenshot of the first page of the notebook and save it

