Exercise 1: Create a Jupyter Notebook

- 1. Open Jupyter Notebook or JupyterLab.
- 2. Create a new notebook named DataScienceEcosystem.ipynb.

Exercise 2: Create Markdown Cell with Title

1. Add a new markdown cell.

Enter the following:
markdown
Copy code
Data Science Tools and Ecosystem

2.

3. Take a screenshot of this markdown cell and save it as 2-title.png.

Exercise 3: Create Markdown Cell for Introduction

1. Add a new markdown cell.

Enter the following:

markdown

Copy code

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

2.

3. Take a screenshot of this markdown cell and save it as 3-intro.png.

Exercise 4: Create Markdown Cell to List Data Science Languages

1. Add a new markdown cell.

Enter the following:

markdown

Copy code

Some of the popular languages that Data Scientists use are:

- 1. Python
- 2. R
- 3. SOL

2.

3. Take a screenshot of this markdown cell and save it as 4-dslanguages.png.

Exercise 5: Create Markdown Cell to List Data Science Libraries

1. Add a new markdown cell.

Enter the following:

markdown

Copy code

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

- 1. Pandas
- 2. NumPy
- 3. Scikit-learn

2.

3. Take a screenshot of this markdown cell and save it as 5-dslibraries.png.

Exercise 6: Create Markdown Cell with Table of Data Science Tools

1. Add a new markdown cell.

Enter the following:

markdown

Copy code

```
| Data Science Tools |
|-----|
| Jupyter Notebook |
| RStudio |
| Apache Zeppelin |
```

2.

3. Take a screenshot of this markdown cell and save it as 6-dstools.png.

Exercise 7: Create Markdown Cell Introducing Arithmetic Expression Examples

1. Add a new markdown cell.

Enter the following:

markdown

Copy code

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

2.

3. Take a screenshot of this markdown cell and save it as 7-introarithmetic.png.

Exercise 8: Create Code Cell to Multiply and Add Numbers

1. Add a new code cell.

```
Enter the following code:
python
Copy code
# This is a simple arithmetic expression to multiply then add integers
result = (3 * 4) + 5
result
```

- 2.
- 3. Run the cell to verify it returns 17.
- 4. Take a screenshot of the code cell with output and save it as 8-multiplyandaddintegers.png.

Exercise 9: Create Code Cell to Convert Minutes to Hours

1. Add a new code cell.

```
Enter the following code:
```

python

Copy code

```
# This will convert 200 minutes to hours by dividing by 60
hours = 200 / 60
hours
```

- 2.
- 3. Run the cell to evaluate the expression.
- 4. Take a screenshot of the code cell with output and save it as 9-hourstominutes.png.

Exercise 10: Insert Markdown Cell to List Objectives

1. Add a new markdown cell below the introduction cell created in Exercise 3.

```
Enter the following:
markdown
Copy code
**Objectives:**
- List popular languages for Data Science.
- List commonly used libraries in Data Science.
```

- Create and execute arithmetic expressions in Python.
- Convert units using Python.
 - 2.
 - 3. Take a screenshot of this markdown cell and save it as 10-objectives.png.

Exercise 11: Create Markdown Cell to Indicate Author's Name

1. Add a new markdown cell.

Enter the following: markdown Copy code ## Author Sidhartha

- 2.
- 3. Take a screenshot of this markdown cell and save it as 11-authordetails.png.

Exercise 12: Share Your Notebook Through GitHub

- Save and download your notebook (DataScienceEcosystem.ipynb).
- 2. Upload it to a public repository on GitHub.
- 3. Keep the GitHub repository link handy for submission.

Exercise 13: Take a Screenshot of the First Page