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1378

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Lab 03

```
import nbformat as nbf

# Create a new Jupyter notebook object
nb = nbf.v4.new_notebook()

# Add a Markdown cell
markdown_text = "My first markdown cell in Jupyter."
markdown_cell = nbf.v4.new_markdown_cell(markdown_text)

# Add a Code cell
code_text = 'print("Hello, World!")'
code_cell = nbf.v4.new_code_cell(code_text)

# Add cells to the notebook
nb.cells.append(markdown_cell)
nb.cells.append(code_cell)

# Save the notebook to a file
with open('My_First_Notebook.ipynb', 'w') as f:
```

```
    nbf.write(nb, f)


print("Notebook created and saved as 'My_First_Notebook.ipynb"')
```

What You Did:

- GitHub Account:
  - Created and verified a GitHub account.
- Repository:
  - Set up a public repository named jupyter-exploration.
- Jupyter Notebook:
  - Installed Jupyter Notebook using pip install notebook.
  - Created a notebook file (My_First_Notebook.ipynb), added a markdown cell and a code cell, and ran the code.
- Upload:
  - Uploaded the notebook file to the GitHub repository.

What You Learned:

- GitHub:
  - Learned to set up a repository, manage files, and use version control.
- Jupyter Notebooks:
  - Discovered how to create, edit, and run code and markdown cells in an interactive environment.
- Challenges:
  - Faced issues with Jupyter installation and GitHub setup but resolved them with troubleshooting and guidance.