

# Quiz Review Guide (March 4)

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Please review the following topics:

## Jupyter Notebook

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- How to run the current cell (including keyboard shortcuts)
- The difference between **Markdown cells** and **Code cells**

## GitHub

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- Basic commands:
  - `git add`
  - `git commit`
  - `git push`
  - `git clone`
- Branching:
  - How to create a new branch
  - How to switch to another branch

## Python

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- Basic syntax:
  - Indentation
  - Defining variables
  - List, tuple, dict
  - Arithmetic operations
- File handling:
  - Different file modes (`r`, `w`, `a`, etc.)
  - Reading and writing files
  - Using the `csv` module

## Pandas

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- Creating a **Series** and a **DataFrame**
- Appending a new row to an existing DataFrame
- Types of problematic data (missing values, duplicates, incorrect formats, outliers etc.)
- Removing or replacing missing values
- Removing duplicates
- Using the `head()` function
- Filtering rows

- Reading from and writing to CSV and Excel (`.xlsx`) files

## NumPy

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- Creating arrays using:
  - `empty()`
  - `zeros()`
  - `ones()`