

Python-Productivity-Suite

1. Project Description

Python Productivity Suite is a multi-tool command-line application built using Python.

It integrates several utilities into one system, designed for productivity and learning purposes.

Tools included:

- Calculator (Add, Subtract, Multiply, Divide)
- Notes Manager (Persistent storage using JSON)
- Timer & Stopwatch
- File Organizer (List and move files)
- Unit Converter
- Backup & Export System

Skills demonstrated:

- Python programming (functions, modules, OOP)
- File handling (JSON, TXT)
- Modular project structure
- Git and GitHub version control
- Command-line interface design

2. Setup Instructions

1. Install Python from [python.org](https://www.python.org)
2. Clone the repository:

```
git clone  
https://github.com/Ananyaagit/python-productivity-suite.git
```

3. Navigate to the project folder:

```
cd python-productivity-suite
```

- Run the application:

```
python main.py
```

3. Project Structure

```
python-productivity-suite/
├── main.py
├── utils.py
└── modules/
    ├── calculator.py
    ├── notes_manager.py
    ├── timer.py
    ├── file_organizer.py
    └── unit_converter.py
└── data/
    ├── notes.json
    └── backups/
└── screenshots/
└── README.md
```

4. Explanations

Calculator: Performs basic arithmetic operations with input validation.

Notes Manager: Add, view, delete, export notes. Data is stored in JSON for persistence.

Timer & Stopwatch: Countdown timer and stopwatch for time tracking.

File Organizer: List files in a folder and move them to another folder.

Unit Converter: Convert units of length, weight, and temperature.

Backup & Restore: Backup notes and restore them from saved backups.

5. GitHub Repository

<https://github.com/Ananyaagit/python-productivity-suite>
