

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
2. Clone the repository:

```
git clone
```

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

3. Navigate to the project folder:

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

4. 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>
