

User Guide for File Organizer Script

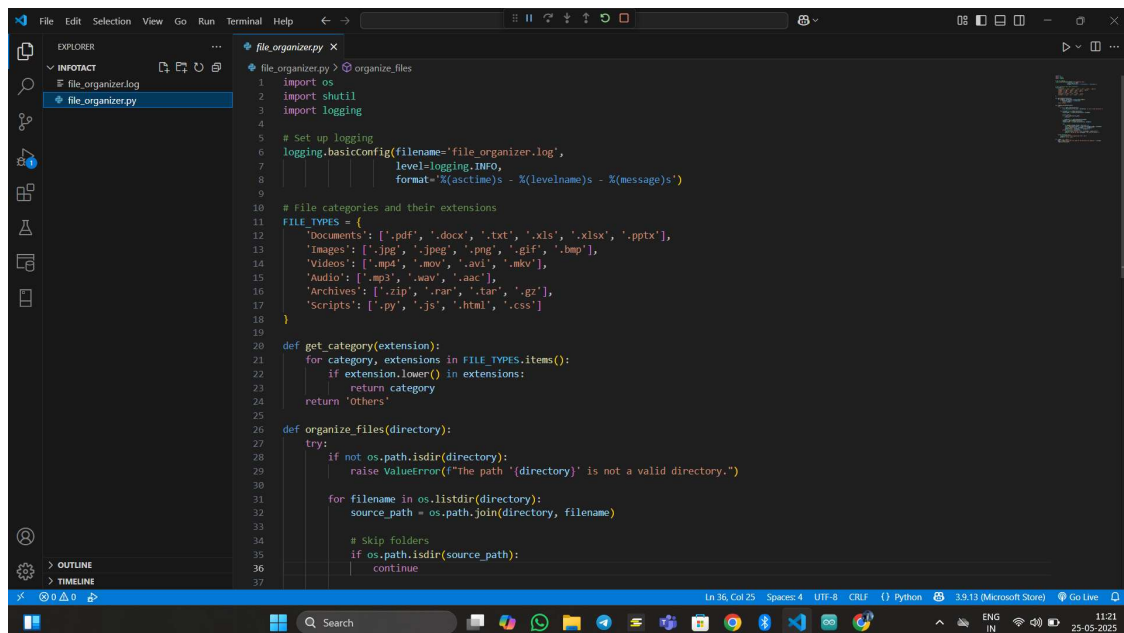
This guide provides step-by-step instructions on how to use the File Organizer Python script.

Step-by-step Instructions

1. Open Terminal / Command Prompt.
2. Run the script using the command: `python file_organizer.py`
3. Enter the folder path when prompted (e.g, C:\Users\YourName\Downloads).
4. Observe the output in the terminal. Files will be sorted and moved into category folders.
5. Open `file_organizer.log` to see a record of moved files and any errors.

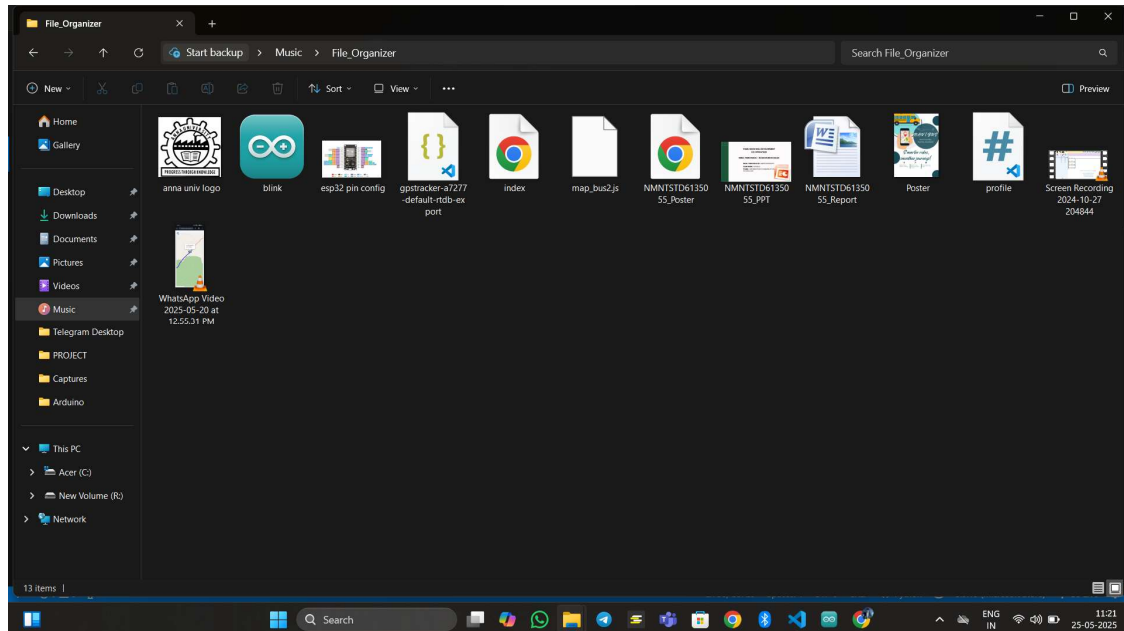
Screenshots

1. Program:

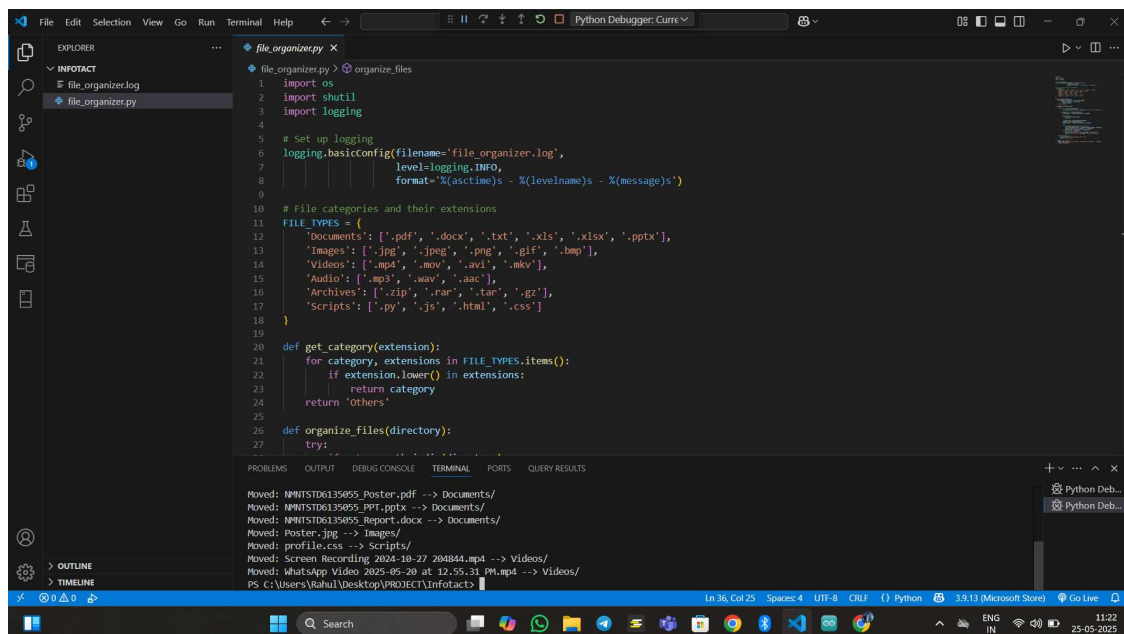
A screenshot of a Windows IDE (Visual Studio Code) showing the file_organizer.py script. The Explorer pane on the left shows the project structure with files: file_organizer.log, file_organizer.py, and file_organizer_files. The main editor displays the Python code for the script. The code includes imports for os, shutil, and logging, sets up logging to file_organizer.log, and defines a dictionary of file categories and their extensions. The main function, organize_files, prompts the user for a directory and organizes files based on their extensions.

```
1 import os
2 import shutil
3 import logging
4
5 # Set up logging
6 logging.basicConfig(filename='file_organizer.log',
7                     level=logging.INFO,
8                     format='%(asctime)s - %(levelname)s - %(message)s')
9
10 # File categories and their extensions
11 FILE_TYPES = {
12     'Documents': ['.pdf', '.docx', '.txt', '.xls', '.xlsx', '.pptx'],
13     'Images': ['.jpg', '.jpeg', '.png', '.gif', '.bmp'],
14     'Videos': ['.mp4', '.mov', '.avi', '.mkv'],
15     'Audio': ['.mp3', '.wav', '.aac'],
16     'Archives': ['.zip', '.rar', '.tar', '.gz'],
17     'Scripts': ['.py', '.js', '.html', '.css']
18 }
19
20 def get_category(extension):
21     for category, extensions in FILE_TYPES.items():
22         if extension.lower() in extensions:
23             return category
24     return 'Others'
25
26 def organize_files(directory):
27     try:
28         if not os.path.isdir(directory):
29             raise ValueError(f"The path '{directory}' is not a valid directory.")
30
31         for filename in os.listdir(directory):
32             source_path = os.path.join(directory, filename)
33
34             # Skip folders
35             if os.path.isdir(source_path):
36                 continue
```

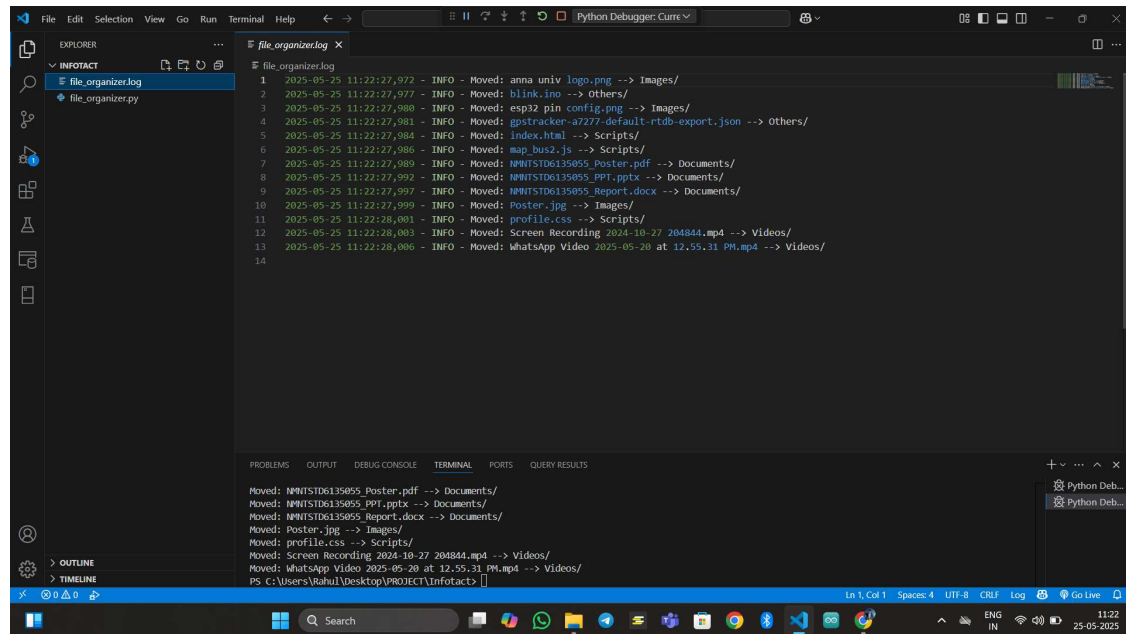
2.Files before organized:



3.Executing the code:



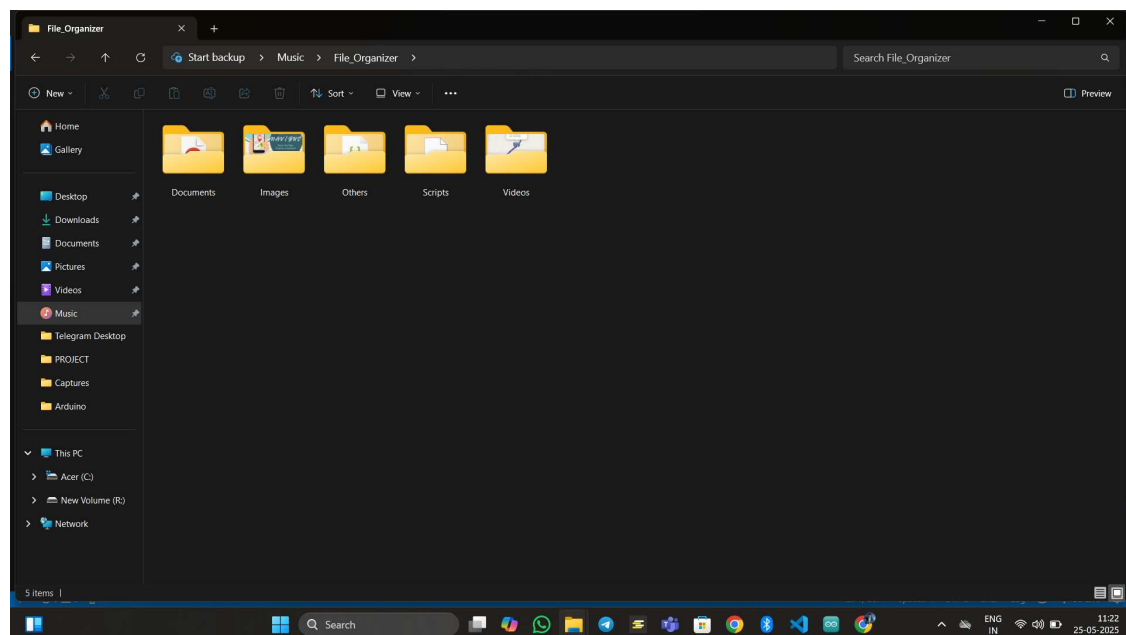
4. File_Organizer.log:



The screenshot shows the Visual Studio Code interface with the 'File_Organizer.log' file open in the editor. The log contains 14 lines of information, each starting with a timestamp and an 'INFO' level message. The messages describe the movement of various files from their original locations to new directories. The Explorer sidebar on the left shows the project structure, including 'INFOTACT' and 'file_organizer.py'. The bottom status bar indicates the current line and column (Ln 1, Col 1) and the file encoding (UTF-8).

```
1 2025-05-25 11:22:27,972 - INFO - Moved: anna univ logo.png --> Images/
2 2025-05-25 11:22:27,977 - INFO - Moved: blink.ino --> Others/
3 2025-05-25 11:22:27,980 - INFO - Moved: esp32 pin config.png --> Images/
4 2025-05-25 11:22:27,981 - INFO - Moved: gstracker-a7277-default-rtub-export.json --> Others/
5 2025-05-25 11:22:27,984 - INFO - Moved: index.html --> Scripts/
6 2025-05-25 11:22:27,986 - INFO - Moved: map_bus2.js --> Scripts/
7 2025-05-25 11:22:27,989 - INFO - Moved: NNNITSD6135055_Poster.pdf --> Documents/
8 2025-05-25 11:22:27,992 - INFO - Moved: NNNITSD6135055_PPT.pptx --> Documents/
9 2025-05-25 11:22:27,997 - INFO - Moved: NNNITSD6135055_Report.docx --> Documents/
10 2025-05-25 11:22:27,999 - INFO - Moved: Poster.jpg --> Images/
11 2025-05-25 11:22:28,001 - INFO - Moved: profile.css --> Scripts/
12 2025-05-25 11:22:28,003 - INFO - Moved: Screen Recording 2024-10-27 204844.mp4 --> Videos/
13 2025-05-25 11:22:28,006 - INFO - Moved: WhatsApp Video 2025-05-20 at 12.55.31 PM.mp4 --> Videos/
14
```

5.After the execution:



Final Deliverables

File	Description
file_organizer.py	Working Python script
README.md	Project description + usage instructions
User Guide.pdf	Screenshots + usage documentation
file_organizer.log	Optional – shows proof of run