# Import Necessary Module

import os

• os module provides functions for interacting with the operating system, such as creating directories and files.

## **Define Variables**

• *Define the desktop path* 

```
desktop_path = os.path.join(os.path.expanduser('~'), 'Desktop')
```

#### Folder name

```
main folder name = "My Organized Folder"
```

# Number of subfolders

num subfolders = 10

- desktop path: Stores the path to the user's desktop.
- main\_folder\_name: Specifies the name of the main folder to be created.
- num\_subfolders: Determines the number of subfolders to be created within the main folder.

#### Create Main Folder

```
Create the main folder if it doesn't exist

main_folder_path = os.path.join(desktop_path, main_folder_name)

try:

os.makedirs(main_folder_path)

except FileExistsError:

print(f'Folder '{main_folder_name}' already exists on your desktop.")
```

- os.makedirs(main folder path): Creates the main folder at the specified path.
- try-except block: Handles the case where the folder already exists, preventing errors.

### Create Subfolders and Files

```
for i in range(1, num_subfolders + 1):
    subfolder_name = f"Subfolder {i}"
    subfolder_path = os.path.join(main_folder_path, subfolder_name)
    os.makedirs(subfolder_path, exist_ok=True)

file_path = os.path.join(subfolder_path, "shridevi.py")
    with open(file_path, 'w') as f:
        f.write("# This is an empty shridevi.py file.\n")
```

- for loop: Iterates num\_subfolders times to create the specified number of subfolders.
- subfolder name: Generates the name for each subfolder.
- subfolder\_path: Creates the path for each subfolder.
- os.makedirs(subfolder\_path, exist\_ok=True): Creates the subfolder, handling the case where it already exists.
- file\_path: Creates the path for the shridevi.py file within each subfolder.
- with open(file\_path, 'w') as f: Opens the file in write mode and writes content to it.

# Print Success Message

print(f"Successfully created folder '{main\_folder\_name}' with {num\_subfolders} subfolders and shridevi.py files on your desktop.")

• Prints a message indicating the successful creation of the folders and files.

## Key Points for task

- 1. Clarity and Conciseness: Explain each step clearly and avoid unnecessary jargon.
- 2. Visual Aids: Use diagrams or screenshots to illustrate the folder structure and code execution.
- 3. Code Demonstration:If possible, demonstrate the code execution live to show the results.
- 4. Customization: Explain how the code can be customized by changing variable values or adding more features.
- 5. Error Handling: Emphasize the importance of error handling and how the try-except block prevents issues.
- 6. Best Practices: Discuss coding best practices, such as using descriptive variable names and following Python style guidelines.

By following these guidelines and providing a clear and engaging presentation, you can effectively explain the code to your audience.