

12 Develop a program to display contents of a folder recursively (Directory) having sub-folders and files (name and type).

```
import os

def display_folder(folder):
    for item in os.listdir(folder):

        path = os.path.join(folder, item)

        if os.path.isdir(path):
            print("Folder:", item)
            display_folder(path)

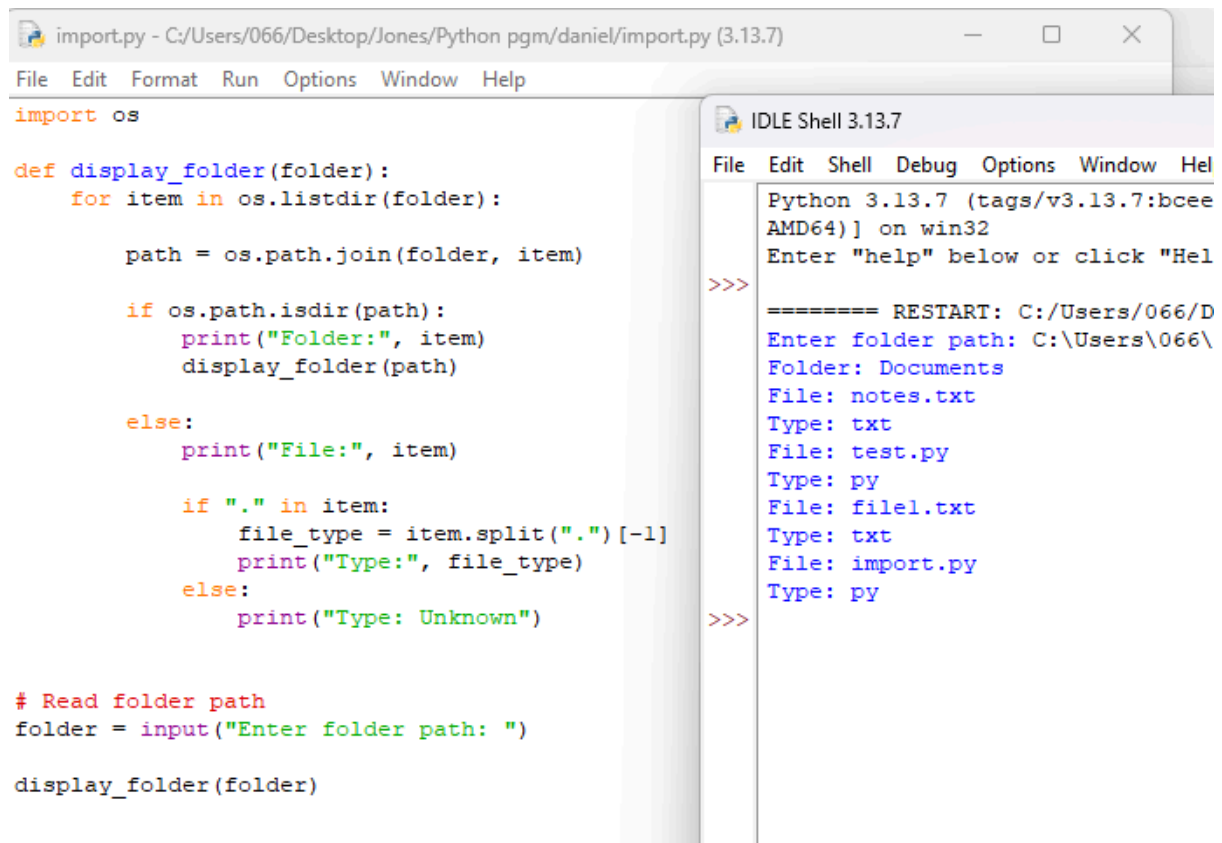
        else:
            print("File:", item)

            if "." in item:
                file_type = item.split(".")[1]
                print("Type:", file_type)
            else:
                print("Type: Unknown")

# Read folder path
```

```
folder = input("Enter folder path: ")
```

```
display_folder(folder)
```



The image shows a screenshot of a Python IDE window titled 'import.py - C:/Users/066/Desktop/Jones/Python pgm/daniel/import.py (3.13.7)'. The main editor displays the following Python code:

```
import os

def display_folder(folder):
    for item in os.listdir(folder):

        path = os.path.join(folder, item)

        if os.path.isdir(path):
            print("Folder:", item)
            display_folder(path)

        else:
            print("File:", item)

            if "." in item:
                file_type = item.split(".")[1]
                print("Type:", file_type)
            else:
                print("Type: Unknown")

# Read folder path
folder = input("Enter folder path: ")

display_folder(folder)
```

Overlaid on the right side of the IDE is the 'IDLE Shell 3.13.7' window. It shows the execution output:

```
Python 3.13.7 (tags/v3.13.7:bcee
AMD64) on win32
Enter "help" below or click "Hel

>>>
===== RESTART: C:/Users/066/D
Enter folder path: C:\Users\066\
Folder: Documents
File: notes.txt
Type: txt
File: test.py
Type: py
File: file1.txt
Type: txt
File: import.py
Type: py

>>>
```

