```
1 import os
2
   import shutil
3
   # Taking input folder path from User.
4
5 | folder_path = input('Enter the folder path which you want to organize :')
6
   checking_exist =os.path.exists(folder_path)
7
8
   # Checking valid path.
9
10
   if checking_exist == True:
        print('Path is valid.')
11
12
13
   else:
14
        while checking_exist == False or checking_directory == False:
15
            print()
16
            print('enter valid path!')
17
            print('"Ctrl + C if you want to exit loop."')
            folder_path = input('Enter the folder path which you want to organize :')
18
19
            checking_exist =os.path.exists(folder_path)
20
            checking_directory =os.path.isdir(folder_path)
21
   print(20*'-')
22
23
24
   # Listing folder files.
25
26
   listing_directory = os.listdir(folder_path)
27
   print(listing_directory)
28
29
   print(20*'-')
30
31 # File extensions.
32
33
   file extensions = {
        "Text": [".txt", ".md", ".csv", ".log", ".json", ".xml"],
34
        "Images": [".jpg", ".png", ".gif", ".bmp", ".svg", ".tiff"],
35
        "Audio": [".mp3", ".wav", ".aac", ".ogg"],
36
        "Video": [".mp4", ".avi", ".mkv", ".mov", ".wmv"],
37
        "Documents": [".pdf", ".docx", ".xlsx", ".pptx", ".html", ".rtf"],
38
        "Archives": [".zip", ".tar", ".rar", ".7z", ".gz"],
39
        "Scripts": [".py", ".sh", ".bat", ".js", ".php"],
40
        "Data": [".db", ".sql", ".sqlite", ".h5"],
41
        "Executables": [".exe", ".dll", ".bin", ".apk"]
42
43
44
45
   extensions values = list(file extensions.values())
46
47
   # Creating a destination folder.
   destination_path = input('Enter the destination path for organized folders:')
48
49
50
   # Creating a new folder inside the specified directory
51
   new folder = 'Destination Folder'
52
   destination_folder = os.path.join(destination_path, new_folder)
53
   if not os.path.exists(destination_folder):
54
        making_directory = os.makedirs(destination_folder)
```

```
55
        print(f'Destination {destination_folder} created successfully.')
56
   else:
57
        print(f'Directory {destination_folder} already exists.')
58
   print(20*'-')
59
60
61
   # Creating sub-folders with file_extension keys.
   sub_folders = list(file_extensions.keys())
62
63
   for subdir in sub_folders:
        dir_path = os.path.join(destination_folder, subdir)
64
65
        os.makedirs(dir_path, exist_ok= True)
        print(f'Sub folders {sub_folders} created successfully.')
66
67
68
   print(20*'-')
69
70
   # Match the file based on its extension
71
   for file_name in listing_directory:
        file_path = os.path.join(folder_path, file_name)
72
        if os.path.isfile(file_path):
73
74
            file_ext = os.path.splitext(file_name)[1].lower()
75
            for category, extensions in file_extensions.items():
                if file_ext in extensions:
76
77
                    dest_path = os.path.join(destination_folder, category, file_name)
                    shutil.move(file_path, dest_path)
78
79
                    print(f"Moved '{file_name}' to {dest_path}")
80
                    break
```