# Basic File Organizer - Python Project

This script organizes files in a directory based on their file types into respective folders.

import os  
import shutil  
  
# Function to create folder if it doesn't exist  
def create\_folder(folder\_name, path):  
 folder\_path = os.path.join(path, folder\_name)  
 if not os.path.exists(folder\_path):  
 os.makedirs(folder\_path)  
 return folder\_path  
  
# Function to organize files  
def organize\_files(directory):  
 # File type categories  
 file\_types = {  
 'Images': ['.jpg', '.jpeg', '.png', '.gif', '.bmp'],  
 'Videos': ['.mp4', '.mkv', '.flv', '.avi', '.mov'],  
 'Documents': ['.pdf', '.docx', '.doc', '.xlsx', '.pptx', '.txt'],  
 'Music': ['.mp3', '.wav', '.aac', '.flac'],  
 'Archives': ['.zip', '.rar', '.7z', '.tar', '.gz'],  
 'Programs': ['.py', '.java', '.cpp', '.js', '.html', '.css'],  
 'Others': [] # For files that don't fit into any category  
 }  
  
 # Ensure the directory exists  
 if not os.path.exists(directory):  
 print("Directory does not exist!")  
 return  
  
 # Iterate through files in the directory  
 for file\_name in os.listdir(directory):  
 file\_path = os.path.join(directory, file\_name)  
  
 # Skip directories  
 if os.path.isdir(file\_path):  
 continue  
  
 # Get the file extension  
 \_, file\_extension = os.path.splitext(file\_name)  
  
 # Find the folder to move the file  
 folder\_name = 'Others'  
 for key, extensions in file\_types.items():  
 if file\_extension.lower() in extensions:  
 folder\_name = key  
 break  
  
 # Move the file to the appropriate folder  
 destination\_folder = create\_folder(folder\_name, directory)  
 shutil.move(file\_path, os.path.join(destination\_folder, file\_name))  
  
 print(f"Files in '{directory}' have been organized successfully!")  
  
# Driver code  
if \_\_name\_\_ == "\_\_main\_\_":  
 # Get the directory to organize  
 folder\_to\_organize = input("Enter the folder path to organize: ").strip()  
 organize\_files(folder\_to\_organize)