import os  
import glob  
import platform  
  
  
extensions = {  
 "jpg": "images",  
 "png": "images",  
 "ico": "images",  
 "gif": "images",  
 "svg": "images",  
 "exe": "programs",  
 "msi": "programs",  
 "pdf": "pdf",  
 "xlsx": "Excel",  
 "csv": "Excel",  
 "rar": "arhive",  
 "zip": "arhive",  
 "gz": "arhive",  
 "tar": "arhive",  
 "docx": "word",  
 "txt": "text",  
 "pptx": "powerpoint",  
 "ppt": "powerpoint",  
 "mp3": "audio",  
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 "mp4": "video",  
 "m3u8": "video",  
 "webm": "video",  
 "ts": "video",  
 "json": "json",  
 "css": "web",  
 "js": "web",  
 "html": "web",  
 "apk": "apk",  
}  
  
  
def op\_sys():  
 return f"Operating system: {platform.system()}"  
  
  
def cur\_dir():  
 return f"Current directory: {os.getcwd()}"  
  
  
print(f"{op\_sys()}\n{cur\_dir()}")  
path = os.getcwd()  
kol = 1  
for extension, folder\_name in extensions.items():  
 sum\_1 = 0  
 size = 0  
 files = glob.glob(os.path.join(path, f"\*.{extension}"))  
 print(f"[\*] Найдено {len(files)} файлов с {extension} расширением")  
 if not os.path.isdir(os.path.join(path, folder\_name)) and files:  
 print(f"[+] Создание папки {folder\_name}")  
 os.mkdir(os.path.join(path, folder\_name))  
 for file in files:  
 basename = os.path.basename(file)  
 dst = os.path.join(path, folder\_name, basename)  
 if kol:  
 print(f"[\*] перемещение {file} в {dst}")  
 sum\_1 += 1  
 size += os.path.getsize(file)  
 os.replace(file, dst)  
path\_1 = os.path.join(path, folder\_name)  
os.rename(f"{path\_1}/{basename}", f"{path\_1}/first.{extension}")  
print(f"Файл {basename} был переименован в first.{extension}")  
print(f"{sum\_1} файл/-ов перемещено в папку {dst} общим размером - {size} кб")  
  
  
  
# os.rename(f"data\_txt/{filename\_txt}", "data\_txt/renamed.txt")  
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