

1. import os

def count-word-frequency(input-file, output-file):

try:

with open(input-file, 'r', encoding='utf-8'):

text = file.read()

~~try:~~

word-list = text.split()

word-freq = {}

for word in word-list:

word = word.lower().strip('!;,:*')

word-freq[word] = word-freq.get(word, 0) + 1

with open(output-file, 'w', encoding='utf-8') as file:

for word, count in sorted(word-freq.items(), key=lambda x: x[1],
reverse=True):

file.write(f"{word}: {count}\n")

print("Word frequency count saved successfully")

except FileNotFoundError:

print("Error: The input file does not exist.")

except Exception as e:

print(f"An error occurred: {e}")

count-word-frequency("sample.txt", "word-count.txt")

2. import os

def list-files-by-extension(folder-path, extension):

try:

if not os.path.exists(folder-path):

print("Error: Folder does not exist")

return

files = [f for f in os.listdir(folder-path) if f.endswith(extension)]


```
print(f"Files with '{extension}' extension")
```

```
for file in files:
```

```
    print(file)
```

```
except Exception as e:
```

```
    print(f"Error: {e}")
```

```
list_files_by_extension('test_folder', ".txt")
```

```
3. import shutil
```

```
def zip_folder(folder_path, zip_name):
```

```
    try:
```

```
        shutil.make_archive(zip_name, 'zip', folder_path)
```

```
        print(f"Folder '{folder_path}' compressed successfully")
```

```
    except Exception as e:
```

```
        print(f"Error: {e}")
```

```
def extract_zip(zip_path, extract_to):
```

```
    try:
```

```
        shutil.unpack_archive(zip_path, extract_to, 'zip')
```

```
        print(f"Zip file '{zip_path}' extracted successfully")
```

```
    except Exception as e:
```

```
        print(f"Error: {e}")
```

```
zip_folder("test_folder", "compressed_folder")
```

```
extract_zip("compressed_folder.zip", "extracted_folder")
```

```
4. import requests
```

```
def download_image(url, save_path):
```

```
    try:
```

```
        response = requests.get(url, stream=True)
```

```
        response.raise_for_status()
```

```
        with open(save_path, 'wb') as file:
```

```
            for chunk in response.iter_content(1024):
```

```
                file.write(chunk)
```

```
        print(f"Image downloaded successfully: {save_path}")
```

```
    except requests.exceptions.RequestException:
```

```
        print(f"Error: {e}")
```



```
image-url = "https://example.com/sample.jpg"
```

```
download_image(image-url, "downloaded-image.jpg")
```

5. import re

```
def extract_emails(file_path):
```

```
    try:
```

```
        with open(file_path, 'r', encoding="utf-8") as file:
            content = file.read()
```

```
        emails = re.findall(r'[a-zA-Z0-9._%+-]+@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,}', content)
```

```
        print("Extracted Email Addresses:")
```

```
        for email in emails:
```

```
            print(email)
```

```
    except FileNotFoundError:
```

```
        print("Error: File not found")
```

```
    except Exception as e:
```

```
        print(f"Error: {e}")
```

```
extract_emails("sample-text.txt")
```

6. import requests

```
import os
```

```
def download_files(url_list, save_folder):
```

```
    if not os.path.exists(save_folder):
```

```
        os.makedirs(save_folder)
```

```
    for i, url in enumerate(url_list):
```

```
        try:
```

```
            response = requests.get(url, stream=True)
```

```
            response.raise_for_status()
```

```
            file_name = os.path.join(save_folder, f"file_{i+1}.jpg")
```

```
            with open(file_name, 'wb') as file:
```

```
                for chunk in response.iter_content(1024):
```

```
                    file.write(chunk)
```

```
            print(f'Downloaded: {file_name}') 
```

```
    except requests.exceptions.RequestException as e:
```

```
        print(f"Error downloading {url}: {e}")
```


urls = ["https://example.com/image1.jpg", "https://example.com/image2.jpg"]
download_files(urls, "downloaded-images")