Algorithm for file updates in Python

Project description

In this project, I will open a file, read the contents, convert a string into a list, remove IP addresses, and finally update the file with the correct list of IP addresses.

Open the file that contains the allow list

The first portion I completed was assigning the file name as a string.

```python
# Assign import_file to the name of the file

import_file="allow_list.txt"
```

Then to open the file...

```python
# Build with statement to read inital comments of the file

with open (import_file, "r") as file:
```

Read the file contents

To read the contents in the file, I used read()

```python
ip_addresses = file.read()
```

Convert the string into a list

```python
# Use `.split()` to convert `ip_addresses` from a string to a list

ip_addresses = ip_addresses.split()
```

Remove IP addresses that are on the remove list

```python
for element in remove_list:

  # Create conditional statement to evaluate if `element` is in `ip_addresses

  if element in ip_addresses:

    # use the `.remove()` method to remove
    # elements from `ip_addresses`

    ip_addresses.remove(element)
```

Update the file with the revised list of IP addresses

```python
# Convert `ip_addresses` back to a string so that it can be written into the text file

ip_addresses = "\n".join(ip_addresses)
```