

```

1 # This script is used to convert the time series data into standardised .csv-files.
2
3 # Import of libraries
4 import os
5 import main as settings
6
7 # -----
8
9 # Functions
10
11 def convert_file(filename, delimiter, skiprows=[0]):
12     """
13     This function converts a file into a .csv-file.
14     """
15     print(f'[INFO] Converting "{filename}"\r', end="")
16     with open(os.path.join("data_raw", filename)) as file: # Open the file
17         data = file.readlines() # Read the file
18         for i, line in enumerate(data): # Iterate over the lines
19             print(f'[INFO][{int(50*((i+1)/len(data))):02d}%] Converting "{filename}"\r',
20 end="")
21             if(i not in skiprows): # Check if the line should be skipped
22                 line = line.split(delimiter) # Split the line
23                 for j, e in enumerate(line): # Iterate over the elements
24                     line[j] = e.strip() # Remove the whitespaces
25                 data[i] = line # Replace the line
26             with open(os.path.join("data_converted", f'{filename.split(".")[0]}.csv'), "w")
27 as file: # Open the file
28             for i, line in enumerate(data): # Iterate over the lines
29                 print(f'[INFO][{int(50*((i+1)/len(data))+50):02d}%] Converting "
30 {filename}"\r', end="")
31                 if(i not in skiprows): # Check if the line should be skipped
32                     for j, entry in enumerate(line): # Iterate over the elements
33                         if(entry != ""): # Check if the entry is empty
34                             entry = float(entry.strip().replace(",","."))
35                             if(j == 0): # Check if the entry is the first entry
36                                 file.write(f'{entry}') # Write the entry
37                             else: # Check if the entry is not the first entry
38                                 file.write(f';{entry}') # Write the element
39                         else:
40                             pass
41                     # print(f'[WARN] Empty entry in line {data.index(line) + 1}
42 in file "{filename}.')
43                     file.write("\n") # Write a new line
44                 print(f'[INFO] The file {filename} has been converted successfully.')
45                 return(f'{filename.split(".")[0]}.csv')
46
47 # -----
48
49 # Classes
50
51 # -----
52
53 # Beginning of main program
54
55 if(__name__=='__main__'):
56     for dataset in settings.datasets: # Iterate over the datasets
57         convert_file(dataset[0], dataset[1]) # Convert the file

```