1. Using API https://swapi.co/api/people/ write a Python class that goes through each paginated response and returns a list of the name, height, and gender of each Star Wars character. External Python libraries from PyPi are also permitted if you decide not to use Python's own urllib library.

class ApiHelper:

def star\_wars\_characters(self, page\_nr):

# returns a list (or generator)

# of the name, height, and gender of each

# Star Wars character

2. Write a function that takes the response from ApiHelper's 'star\_wars\_characters' and appends each name, height, gender per row to a text or csv file.

Example results of file contents:

Name,Height,Gender

Luke Skywalker,172,male

C-3PO,167,n/a

R2-D2,96,n/a

...

...

Padmé Amidala,165,female

def append\_to\_file(filepath, name, height, gender):

# append the 'name', 'height' and 'gender' of each Star Wars

# character to a text file (or csv) provided by 'filepath'

3. Write a unit test to check the return value of 'star\_wars\_characters' returns a non-empty array.

4. Add a README.md file to the project describing how to run the program to retrieve all characters and store them all to a text file. Please list instructions how to install additional PyPi packages, if applicable.

5. (Bonus) Write a decorator that logs the arguments passed to 'star\_wars\_characters' before invoking the class method. Use Python logging library log the arguments passed to default output.

class ApiHelper:

@log\_args # logs the value of arguments passed to class method

def star\_wars\_characters(self, page\_nr):

# returns a list (or generator)

# of the name, height, and gender of each

# Star Wars character