from sentenses import get\_determiner, get\_noun, get\_verb, get\_prepositional\_phrase, get\_preposition

import pytest

def test\_get\_determiner():

*# 1. test the single determiners.*

    single\_determiners = ["the", "one"]

    for \_ in range(4):

        word = get\_determiner(1).lower()

        assert word in single\_determiners

*# 2. Test the plural determiners.*

    plural\_determiners = ["some", "many"]

*# this loop will repeat the statements inside it 4 times*

    for \_ in range(4):

        word = get\_determiner(2).lower()

*# Verify that the word returned from get\_determiner*

*# is one of the words in the plural\_determiners list.*

        assert word in plural\_determiners

*#--------------------------------------------------------------------------------------------------*

*# test\_get\_noun*

def test\_get\_noun():

    single\_nouns = ["adult", "bird", "boy", "car", "cat", "child", "dog", "girl", "man", "woman"]

    plural\_nouns = ["adults", "birds", "boys", "cars", "cats", "children", "dogs", "girls", "men", "women"]

    assert get\_noun(1) in single\_nouns

    assert get\_noun() in plural\_nouns

*#----------------------------------------------------------------------------------------------------*

*#test get\_verb*

def test\_get\_verb():

    past = ["drank", "ate", "grew", "laughed", "thought",

        "ran", "slept", "talked", "walked", "wrote"]

    single\_present = ["drink", "eat", "grow", "laugh", "think",

        "run", "sleep", "talk", "walk", "write"]

    plural\_present = ["drinks", "eats", "grows", "laughs", "thinks",

        "runs", "sleeps", "talks", "walks", "writes"]

    future = ["will drink", "will eat", "will grow", "will laugh",

        "will think", "will run", "will sleep", "will talk",

        "will walk", "will write"]

    assert get\_verb(1, "past") in past

    assert get\_verb(0, "past") in past

    assert get\_verb(0, "present") in single\_present

    assert get\_verb(1, "present") in plural\_present

    assert get\_verb(0, "future") in future

    assert get\_verb(1, "future") in future

*#--------------------------------------------------------------------------------------------------------------*

*# test\_get\_preposition*

def test\_get\_preposition():

    preposition = ["about", "above", "across", "after", "along",

        "around", "at", "before", "behind", "below",

        "beyond", "by", "despite", "except", "for",

        "from", "in", "into", "near", "of",

        "off", "on", "onto", "out", "over",

        "past", "to", "under", "with", "without"]

    assert get\_preposition() in preposition

*#----------------------------------------------------------------*

*# test\_get\_preposition\_phrase*

def test\_get\_preposition\_phrase():

    single\_determiners = ["the", "one"]

    plural\_determiners = ["some", "many"]

    single\_nouns = ["adult", "bird", "boy", "car", "cat",  "child", "dog", "girl", "man", "woman"]

    plural\_nouns = ["adults", "birds", "boys", "cars", "cats","children", "dogs", "girls", "men", "women"]

    past = ["drank", "ate", "grew", "laughed", "thought",

        "ran", "slept", "talked", "walked", "wrote"]

    single\_present = ["drink", "eat", "grow", "laugh", "think",

        "run", "sleep", "talk", "walk", "write"]

    plural\_present = ["drinks", "eats", "grows", "laughs", "thinks",

        "runs", "sleeps", "talks", "walks", "writes"]

    future = ["will"]

    preposition = ["about", "above", "across", "after", "along",

        "around", "at", "before", "behind", "below",

        "beyond", "by", "despite", "except", "for",

        "from", "in", "into", "near", "of",

        "off", "on", "onto", "out", "over",

        "past", "to", "under", "with", "without"]

    single\_past = get\_prepositional\_phrase(1, get\_verb(1, "past")).split(" ")

    assert single\_past[0].lower() in single\_determiners

    assert single\_past[1] in single\_nouns

    assert single\_past[2] in past

    assert single\_past[3] in preposition

    plural\_past = get\_prepositional\_phrase(0, get\_verb(0, "past")).split(" ")

    assert plural\_past[0].lower() in plural\_determiners

    assert plural\_past[1] in plural\_nouns

    assert plural\_past[2] in past

    assert plural\_past[3] in preposition

    single\_present = get\_prepositional\_phrase(1, get\_verb(1, "present")).split(" ")

    assert single\_present[0].lower() in single\_determiners

    assert single\_present[1] in single\_nouns

    assert single\_present[2] in single\_present

    assert single\_present[3] in preposition

    plural\_present = get\_prepositional\_phrase(0, get\_verb(0, "present")).split(" ")

    assert plural\_present[0].lower() in plural\_determiners

    assert plural\_present[1] in plural\_nouns

    assert plural\_present[2] in plural\_present

    assert plural\_present[3] in preposition

    single\_future = get\_prepositional\_phrase(1, get\_verb(1, "future")).split(" ")

    assert single\_past[0].lower() in single\_determiners

    assert single\_past[1] in single\_nouns

    assert single\_past[2] in future

    assert single\_past[4] in preposition

    plural\_future = get\_prepositional\_phrase(0, get\_verb(0, "future")).split(" ")

    assert plural\_past[0].lower() in plural\_determiners

    assert plural\_past[1] in plural\_nouns

    assert plural\_past[2] in future

    assert plural\_past[4] in preposition

*#--------------------------------------------------------------------------------*

pytest.main(["-v", "--tb=line", "-rn", "test\_sentenses.py"])