CS128 Lab 10 – More String processing

TASK1:

A valid John Carroll University email address:

(1) contains the domain name 'jcu.edu' after the @ symbol
(2) the userid consists of at least one character before the @ symbol

Write a function named **get_jcu_userid** that takes one string as a parameter. If the parameter is a valid John Carroll University email address, the function should return the userid, which is the substring before the @ sign. For example, 'fsmith23is the userid in 'fsmith23@jcu.edu'.

If the parameter string is not a valid John Carroll University email address, the function should return the string 'invalid'.

HINT: Find the @ character. Get the substrings before and after the @ character and check their validity.

The domain substring after the @ character should be jcu.edu. There should be at least one character before the @ character.

TASK2:

A valid John Carroll University **student** email address:

(1) contains the domain name 'jcu.edu' after the @ symbol
(2) the userid consists of at least three characters before the @ symbol
(3) the last two characters of the userid should be digits

Write a function named **get_jcu_studentid** that takes one string as a parameter. If the parameter is a valid John Carroll University **student** email address, the function should return the userid, which is the substring before the @ sign. If the parameter string is not a valid John Carroll University email address, the function should return the string 'invalid'.

HINT: Copy the function from task1 and adapt it to test the length and last two digits of the userid.

TASK3:

A python assignment statement has the following structure:

variable=value

Write a function named **assignment_statement** that takes two parameters: (1) a string representing a possible assignment statement and (2) a boolean indicating whether to return the variable or the value of the assignment statement. Your function should find the equal sign = and extract the substrings before and after (removing any leading or trailing spaces). Be careful to first check that the equal sign = actually exists in the string!

If the boolean parameter is True return the variable, otherwise return the value. The variable and value must contain at least one character (after leading and trailing spaces have been removed). Return the string 'invalid' if the string is not a valid assignment statement (no equal sign, variable or value less than one character in length).