**Open-Ended Lab Task 2:**

**Objective:**

Given a *pattern* and a string *s*, find if *s* follows the same pattern.

Here **follow** means a full match, such that there is a bijection between a letter in *pattern* and a **non-empty** word in *s*. Specifically:

* Each letter in *pattern* maps to **exactly** one unique word in *s*.
* Each unique word in *s* maps to **exactly** one letter in *pattern*.
* No two letters map to the same word, and no two words map to the same letter.

**Submission Requirements:**

* Submit the program code along with comments explaining key sections of your implementation.
* Optional: Submit screenshots of sample outputs or visualizations if implemented.

**Examples:**

**Example 1:**

**Input:** pattern = "abba", s = "dog cat cat dog"

**Output:** true

**Explanation:**

The bijection can be established as:

* 'a' maps to "dog".
* 'b' maps to "cat".

**Example 2:**

**Input:** pattern = "abba", s = "dog cat cat fish"

**Output:** false

**Example 3:**

**Input:** pattern = "aaaa", s = "dog cat cat dog"

**Output:** false