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AI Assignment 5 report

NL Elective Advisory System

- Processing the file to assign tags
- Output
- Assumptions

Processing

- First we will read the file and perform word tokenization on it.
- The separated tokens will be stemmed using Porter Stemmer.
- We compare the tokens and stems with the taglist and their stems, and assign any tags that exist.
- Now we check for some specific words that correspond to some of our tags.

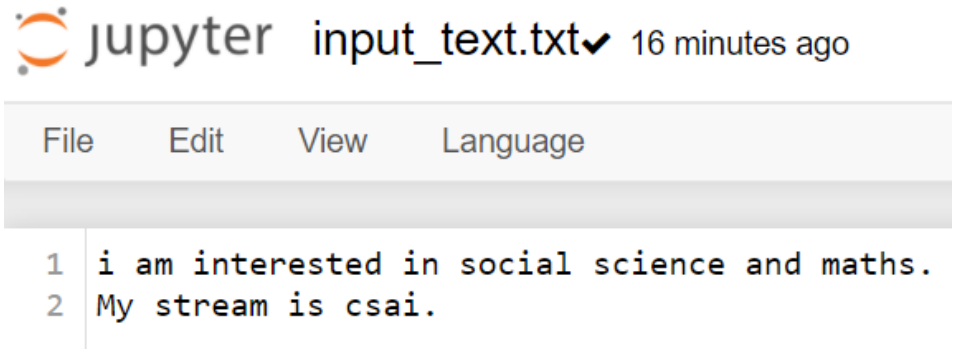
  'artificial intelligence', 'computer science', 'electronic', 'social sciences', 'miscellaneous'

  We check these words and their stems and assign tags as found.
- Now we check if the user has mentioned their stream in the input text, and assign if they have.
- Duplicate tags are removed and the taglist is written to facts.pl

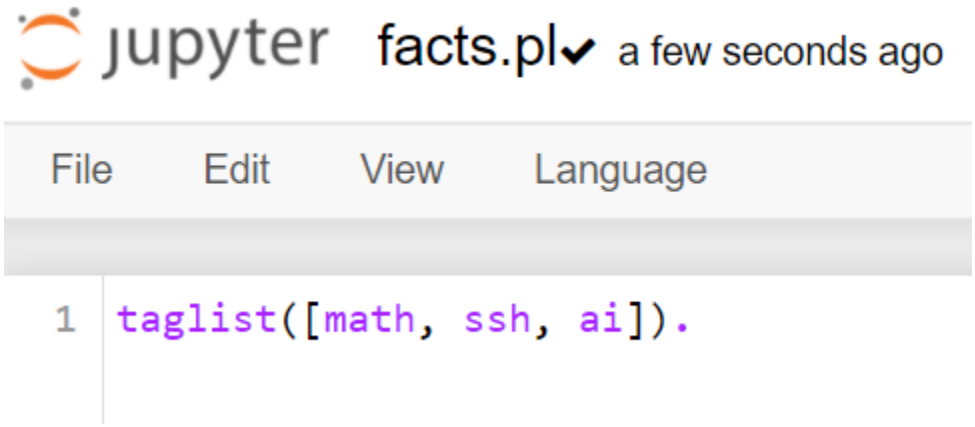
Output

Input 1

Input text :-



Facts file :-

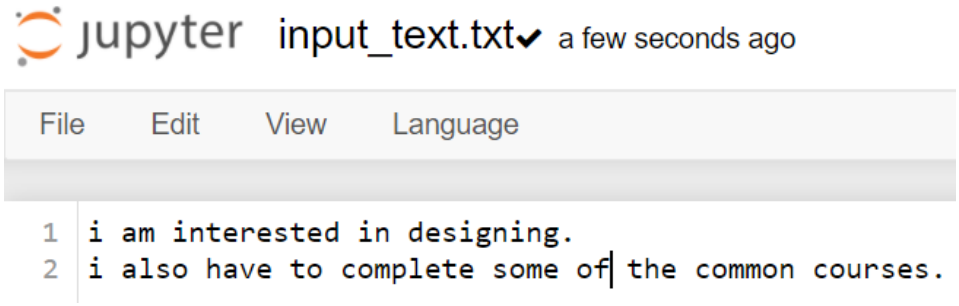


Prolog Output :-

```
?- taglist(X).
X = [math, ssh, ai].

?- connectP.

The recommended course for you are

Artificial Intelligence
CTRSS
Computer Vision
Differential Equations
Introduction to Intelligent Systems
Machine Learning
Math I- Linear Algebra
Multivariate Calculus
Nation and her Narratives
Natural Language Processing
Numerical Methods
Probability & Statistics
RMSSD
Real Analysis I
Real Analysis II
Statistical Machine Learning
true.

?-
```

Input 2

Input text :-



Facts file :-

Prolog Output :-

```
?- taglist(X).
X = [design, common].

?- connectP.

The recommended course for you are

Communication Skills
Computer Organisation
Data Structures & Algorithms
Design Drawing and Visualisation
Design processes and perspectives
Digital Circuits
Human Computer Interaction
Introduction to HCI
Introduction to Programming
Math I- Linear Algebra
Probability & Statistics
Visual design and communication
true.

?-
```

Assumptions

- Input text only contains positive statements. So ‘i am not interested in design’ is not a valid input statement.
- Input text only contains statements that are relevant to the interests and stream of the user.
- Only 1 stream will be mentioned by the user.