**Exercise 4 : Text analysis – Syntax comparison**

**Context :**

In this exercise, you will compare two seminal philosophical texts that address the nature of consciousness and the mind:

* Thomas Nagel's "What Is It Like to Be a Bat?"
* John Searle's "Brain, Mind, and Machine"

**Instructions :**

1. **Read and load the texts**
   * Import the texts as str
   * Clean the texts to remove irrelevant elements like punctuation, capitalization, and stopwords (a, an, in, it, …).
2. **Quantitative Analysis**
   * Calculate word lengths for each text
   * Calculate the number of words per sentence for each text
   * Generate a word cloud for each text to visualize the most prominent words and themes
3. **Visualization**
   * Plot histogram of word length and word per sentences
   * Plot the word cloud

**Packages :**

import pandas as pd

import matplotlib.pyplot as plt

import seaborn as sns

from sklearn.feature\_extraction.text import CountVectorizer

from nltk.corpus import stopwords

import string

import nltk

from wordcloud import WordCloud

**Outputs :**

Une image contenant texte, diagramme, capture d’écran, Police

Description générée automatiquement