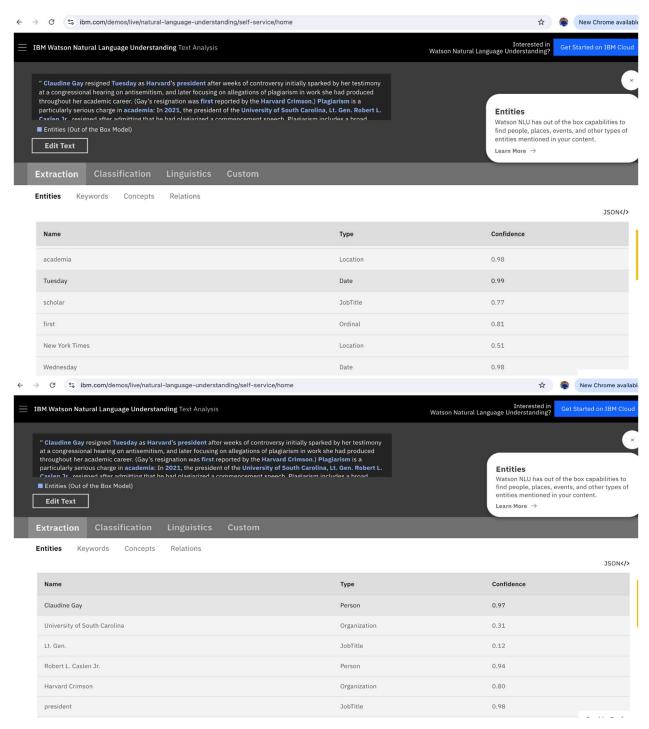
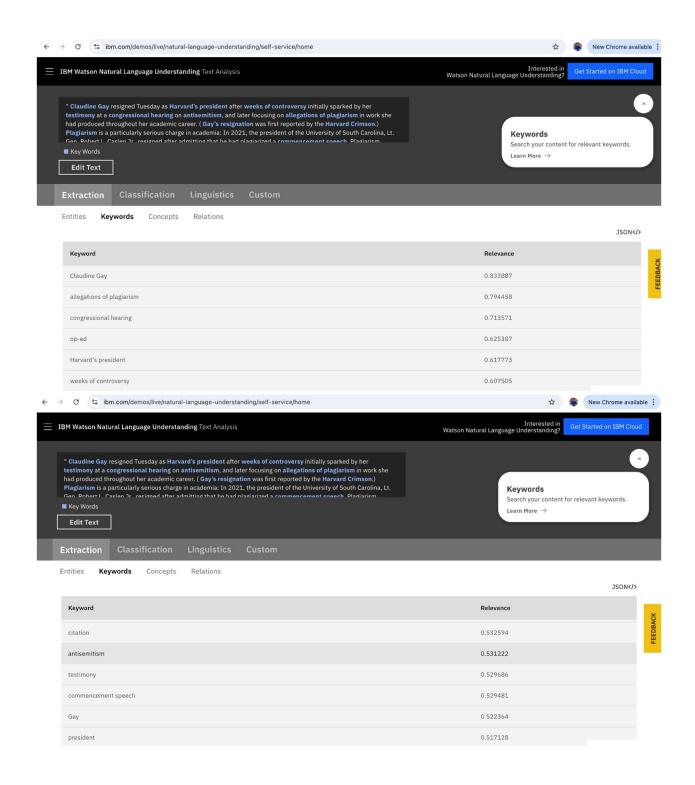
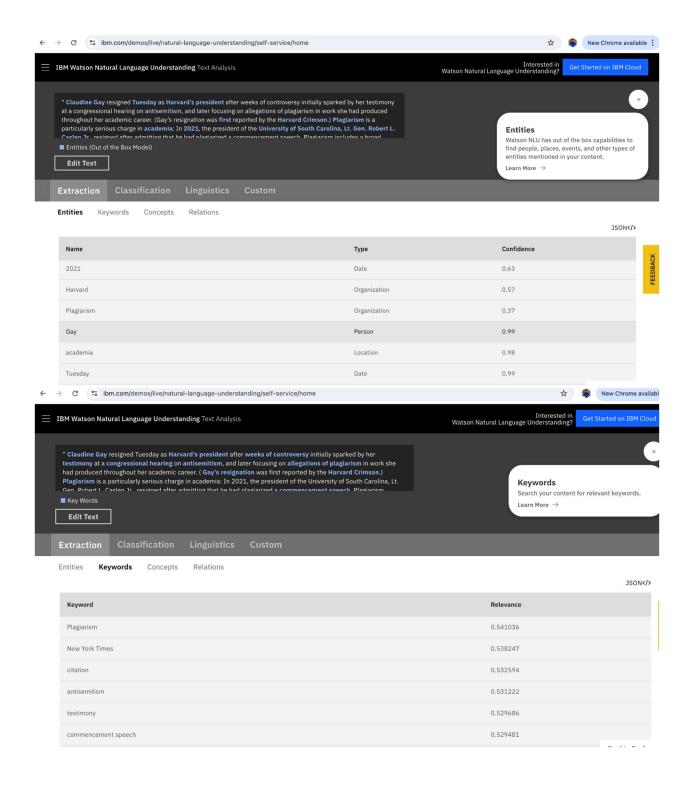
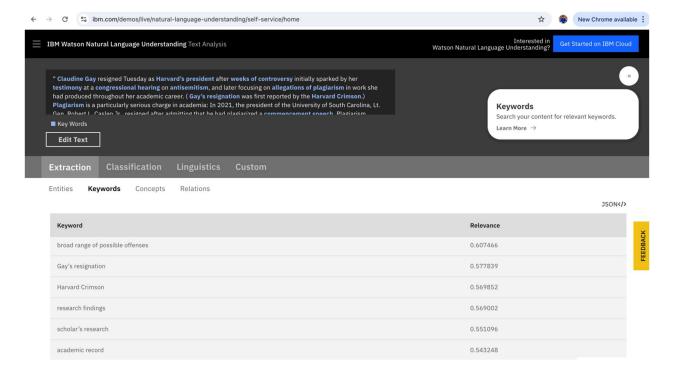
## **EXERCISE 2 of Assignment-03**

- 1. Create an account with IBM Cloud
- 2. Use IBM Watson Natural Language Understanding/Text Analysis to run the sentiment analysis









## 3. Is there any difference in the results? What is IBM's philosophy in sentiment analysis?

## a) Difference in Results:

The differences in results between the Hugging Face models are due to the binary vs. multi-class classification. The first model gives a simple positive/negative result, while the second provides more nuanced ratings (1-5 stars). Also there is difference in results between transformer models and IBM's Watson Natural Language Understanding (NLU) service for sentiment analysis.

## b) IBM's philosophy in sentiment analysis:

IBM's Watson Natural Language Understanding (NLU) service performs sentiment analysis similarly to other transformer models but focuses on providing deeper insights, especially for businesses. For instance, when analyzing social media or customer feedback, Watson might provide sentiment analysis along with:

- Emotion detection (e.g., joy, anger, sadness).
- Keywords driving the sentiment.
- Contextual entity sentiment (what sentiment is associated with a specific product or topic).
- Relationship between Entities