ASSINMENT # 02

TASK # 01

Given a set of documents, how can you create a binary representation where each word is represented as a binary feature (1 for presence, 0 for absence)?

Question: Write a Python script to perform One-Hot Encoding on the following documents:

"**I love programming in Python.**"

"**Python programming is fun.**"

"**I love learning new languages.**"

Display the result in a tabular format with rows representing documents and columns representing words.

TASK # 02

Given a set of documents, create a frequency-based representation where each word is represented by its count in the document. Analyze the frequency of words that appear more than once.

Question: Write a Python script to perform Bag of Words with frequency counting on the following documents:

"**Data science is fun. Data science involves statistics and coding.**"

"**Coding is an essential skill for data science.**"

"**Statistics and data analysis are crucial for data science.**"

Display the result in a tabular format showing the frequency of each word in each document. Make sure to highlight words that appear more than once within each document and across documents.