

### Conclusion:

TF-IDF model indicates the document is similar to Test.docx with a score of: 0.39

LSI model indicates the document is similar to Test.docx with a score of: 0.97

TF-IDF model indicates the document is similar to Test3.docx with a score of: 0.19

LSI model indicates the document is similar to Test3.docx with a score of: 0.84

### Description of results:

The application provides an LSI score and TD-IDF Score for each document within the specified student corpus.

Both LSI score and TD-IDF scores are used to determine the similarity between the documents.

The LSI calculation is based on the Latent Semantic Indexing (LSI) algorithm and should be used for smaller size documents (Documents containing less than 3 pages).

The TD-IDF calculation is based on the Term Frequency-Inverse Document Frequency (TD-IDF) algorithm and should be used for larger size documents (Documents containing more than 3 pages).

The scores range from -1 to 1 where -1 indicates that the documents are completely different and 1 indicates that the documents are completely similar.

The LSI calculation method focuses on the individual words in the corpus whereas TD-IDF focuses on sentences and words.