Task 22 NLP 1

a. Email Categorisation: This process entails the utilisation of Text Categorisation, an application within Natural Language Processing (NLP) that automates the classification of textual information into predefined categories. In this context, emails are categorised into distinct folders such as work, friends, promotions, and important, using their content as the basis for classification.

b. Essay Assessment: This process is a manifestation of Automated Essay Scoring (AES), a field within NLP that focuses on the creation of machine learning algorithms capable of evaluating and scoring written text. The system employs features such as grammar, coherence, structure, and relevance to the prescribed topic to determine the grade of an essay.

c. Medical Diagnosis: This process is an instance of Information Extraction (IE) and Question Answering (QA) Systems. IE is employed to organise and classify data derived from the patient's responses, which the system then utilises to comprehend the context and provide the most likely diagnosis. The QA component enables the system to comprehend and process the inquiries presented by the medical professionals, thereby generating pertinent responses.