<u>Compulsory Task1.</u>

a. For the use case of allocating emails to different folders, the type of NLP classification that applies is text classification or document categorization. The model needs to classify the emails into specific categories (work, friends, promotions, important) based on their content.

b. The use case of deciding what grade to award to an essay question involves automatic summarisation. The model needs to classify and assess the quality of the essay based on various factors such as grammar, structure, coherence, and content.

c. The use case of providing assistive technology for doctors to offer a diagnosis involves medical text classification or clinical text classification.Question answering is another NLP that would be used. The model needs to classify the patient's symptoms, medical history, and possibly their answers to questions asked by the doctor to provide a probable diagnosis. This requires analyzing and understanding medical texts to classify them correctly.