# Assignment Question 2:

Design and implement a language model for generating news headlines using state-of-the-art Recurrent Neural Networks (RNNs) under Deep Learning. Your task involves:

Understanding the core concepts of language modeling and its significance in natural language processing tasks.

Exploring different levels of language models such as character-level, n-gram level, sentence level, or paragraph level.

Implementing and training a language model using Recurrent Neural Networks (RNNs).

Evaluating the performance of your language model in generating next-word predictions for news headlines.

Discussing potential applications and future enhancements of the developed language model.

Guidelines:

Utilize relevant datasets for training and testing your language model.

Experiment with different architectures and hyperparameters to optimize the performance.

Provide comprehensive documentation explaining your implementation choices, training procedure, and evaluation metrics.

Discuss the limitations and challenges faced during the development process and propose potential solutions or improvements.

Note: Your assignment should demonstrate a deep understanding of language modeling principles and showcase your ability to apply advanced deep learning techniques to real-world text generation tasks.