**Approve Prediction of Multi-sequence Learning:**

There is already a multi sequence learning program that it will learn the sequence and predict the outputs of integers and our task is to implement the program that it automatically read learning sequences from the files and learn them predict the output.

**Team Matrix** is working on the Multi-sequence Learning.

This project is done as a part of Software Engineering course.

The goal is to automatically read learning sequences from a file and learn them.

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**Task-1:**

There is already a multi sequence learning program that it will learn the sequence and predict the outputs. First, we need to analyse the existing program and should learn how prediction and learning works

**Task-2:**

Our task is to implement the program that it automatically read learning sequences from the files and predict the output and the prediction accuracy.

**Understanding the concept of Sequence Learning:**

Sequence learning issues are divided into four categories: sequence prediction, sequence production, sequence recognition, and sequential decision making.

These problems demonstrate how sequences are created. They show the patterns sequences follow and how these different sequence learning problems are related to each other.

**Method for Sequence Learning:**

Recurrent Neural Networks (RNN)

**Recurrent Neural Networks** are one of the most common Neural Networks used in Natural Language Processing. In this method we can train the model on particular genre and it can produce text similar to it.

Considering the order of the input is crucial to an RNN's reasoning. Remembering the word that appeared in the previous time step is necessary for us to predict the subsequent word in the sentence. As a result of doing this procedure for each input, these neural networks are known as recurrent. These neural networks operate like a memory storage unit that temporarily saves the previous work since they take it into account when predicting new words.