**Introduction:**

Here, in this assignment, I performed CNN, RNN and LSTM model on the idmb reviews to find the accuracy and loss on different parameters.

**Objectives:**

To implement the CNN, RNN and LSTM model to classify the data which is not used in class. I have used idmb dataset to find the accuracy and loss on different parameters.

**Approaches/methods:**

Created demonstrate has numerous layers in which first layer has inserts words into low dimensional vectors and after that utilizing different channel sizes convolution is performed by the following layers.

**Workflow:**

After gathering the required information, I kept running beneath orders on the model to prepare and anticipate the outcome.

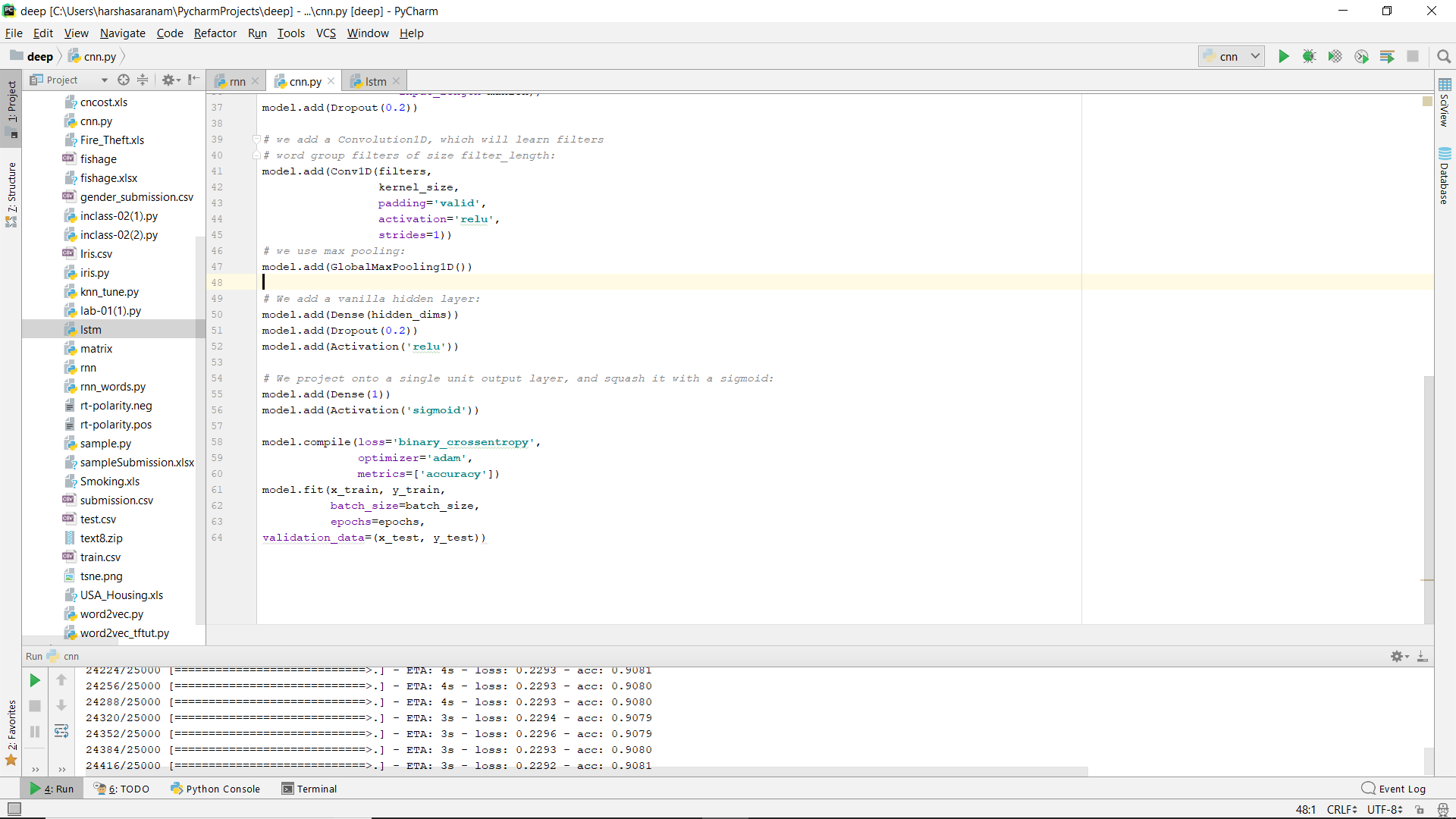
**Parameters:**

Here, I have chosen batch size as my parameter to differentiate the accuracy.

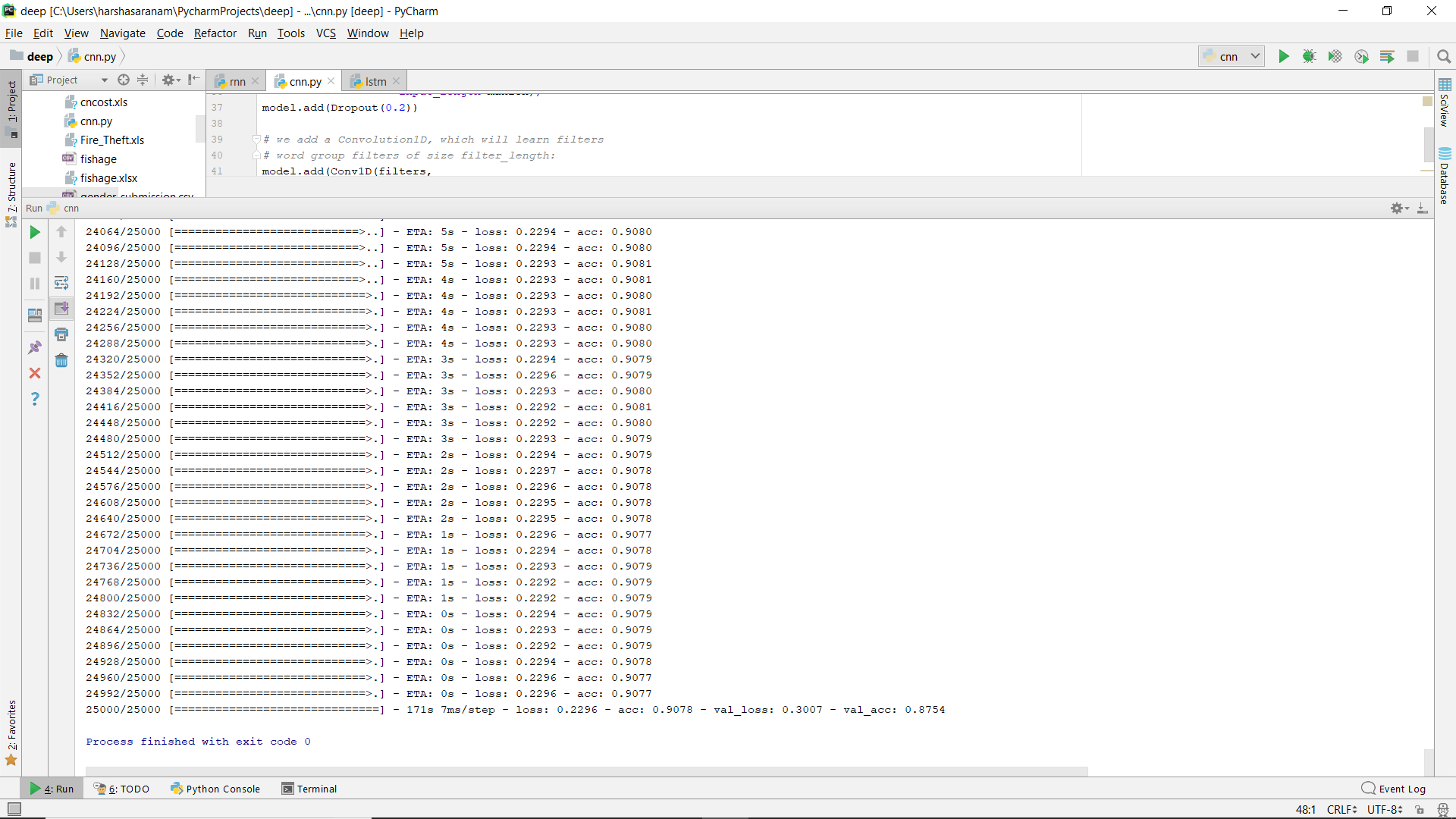
**Evaluation & Discussion:**

On training the data, we get the required results accordingly to the mechanism we need. The mechanisms we performed here are CNN, RNN, LSTM.

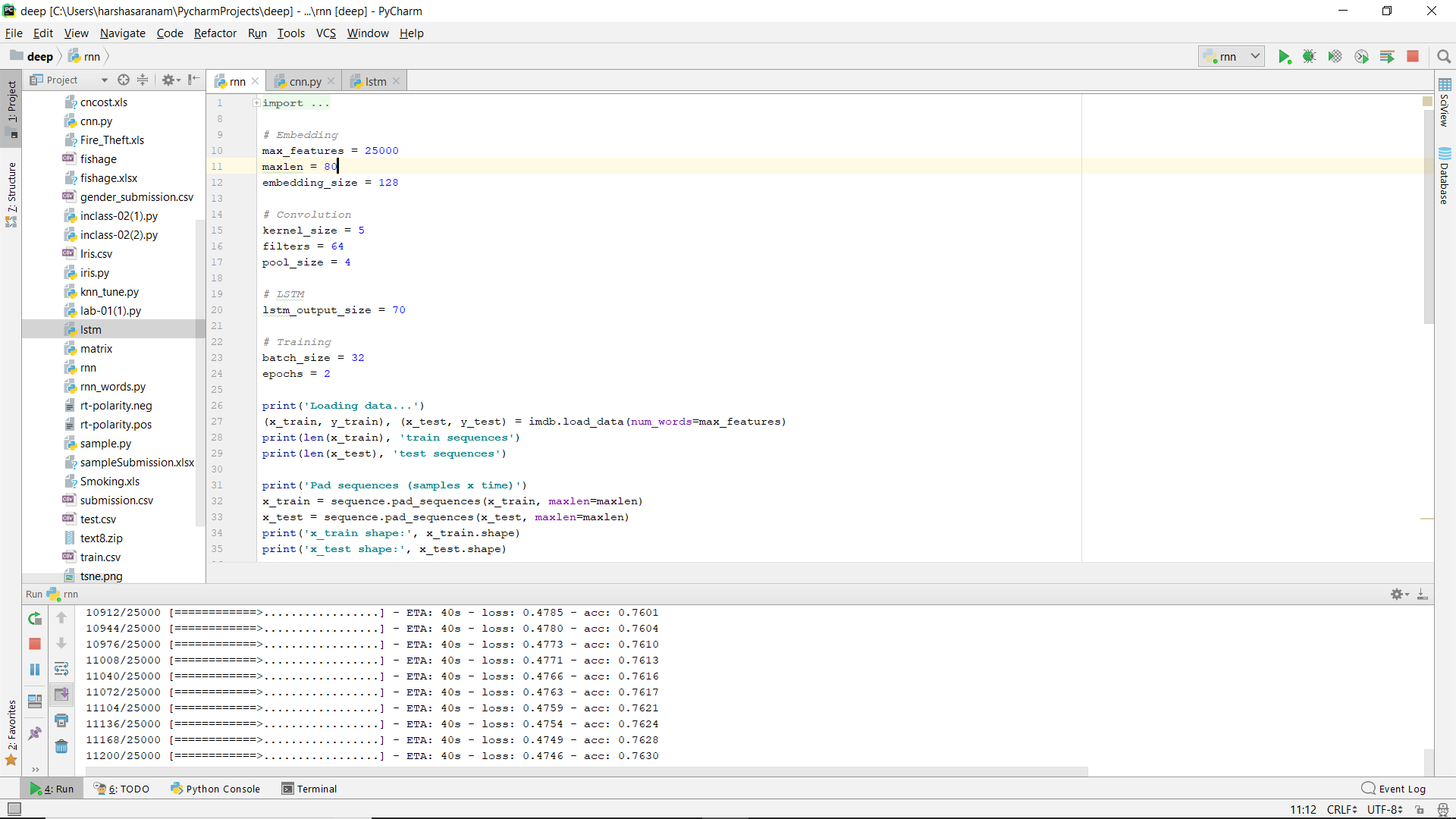
CNN:



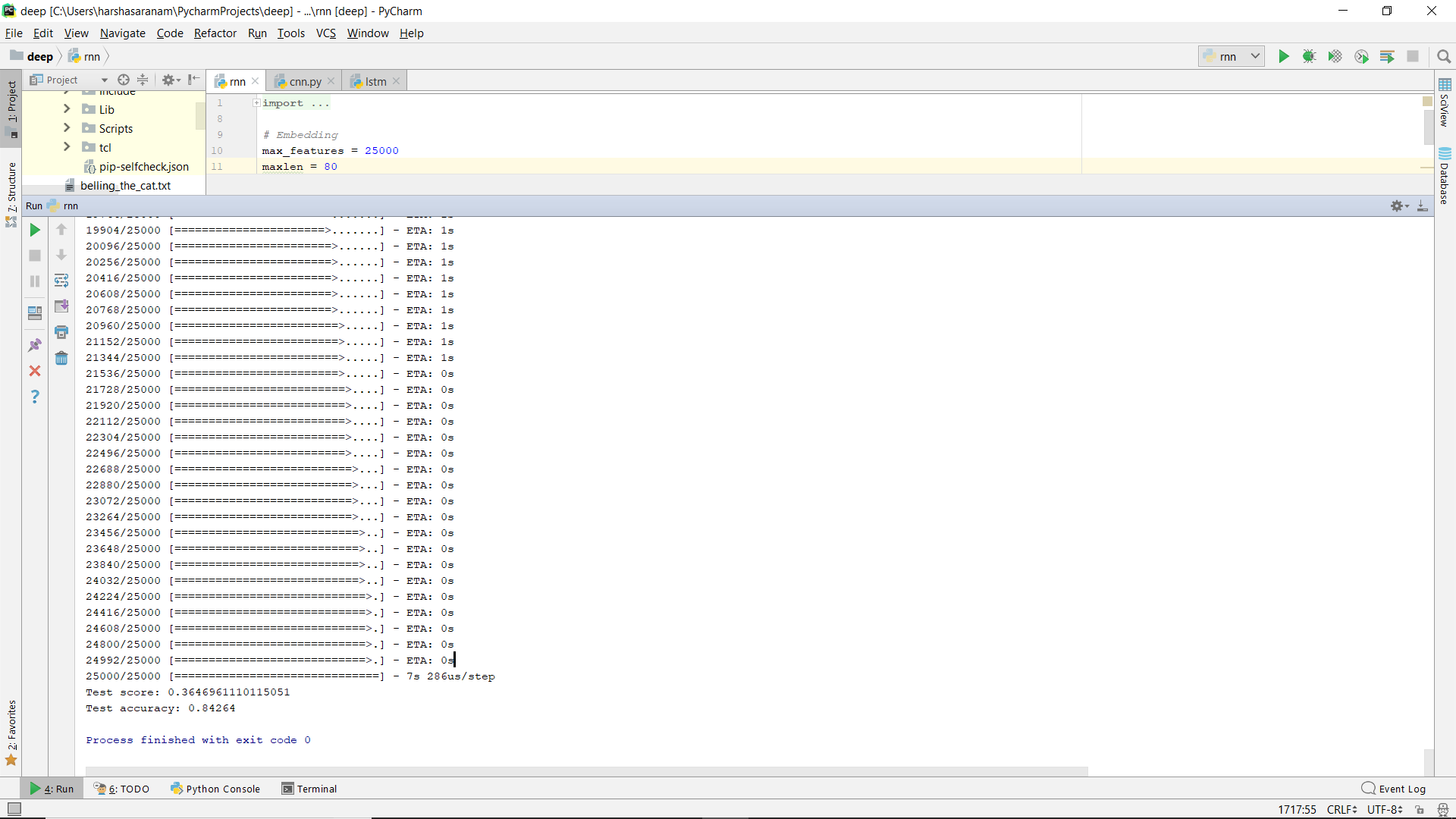
The output performed for CNN is shown below.



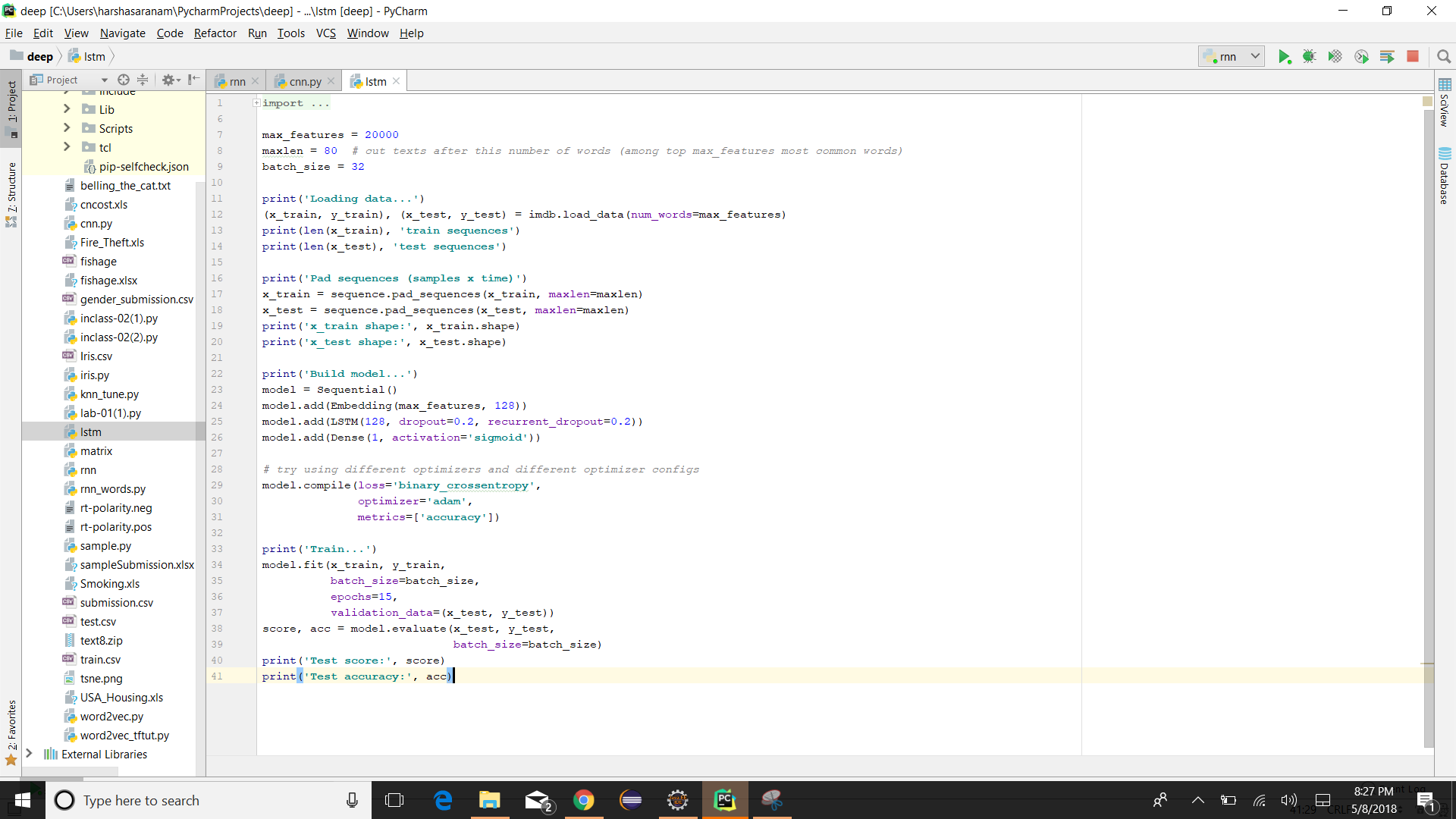
RNN:



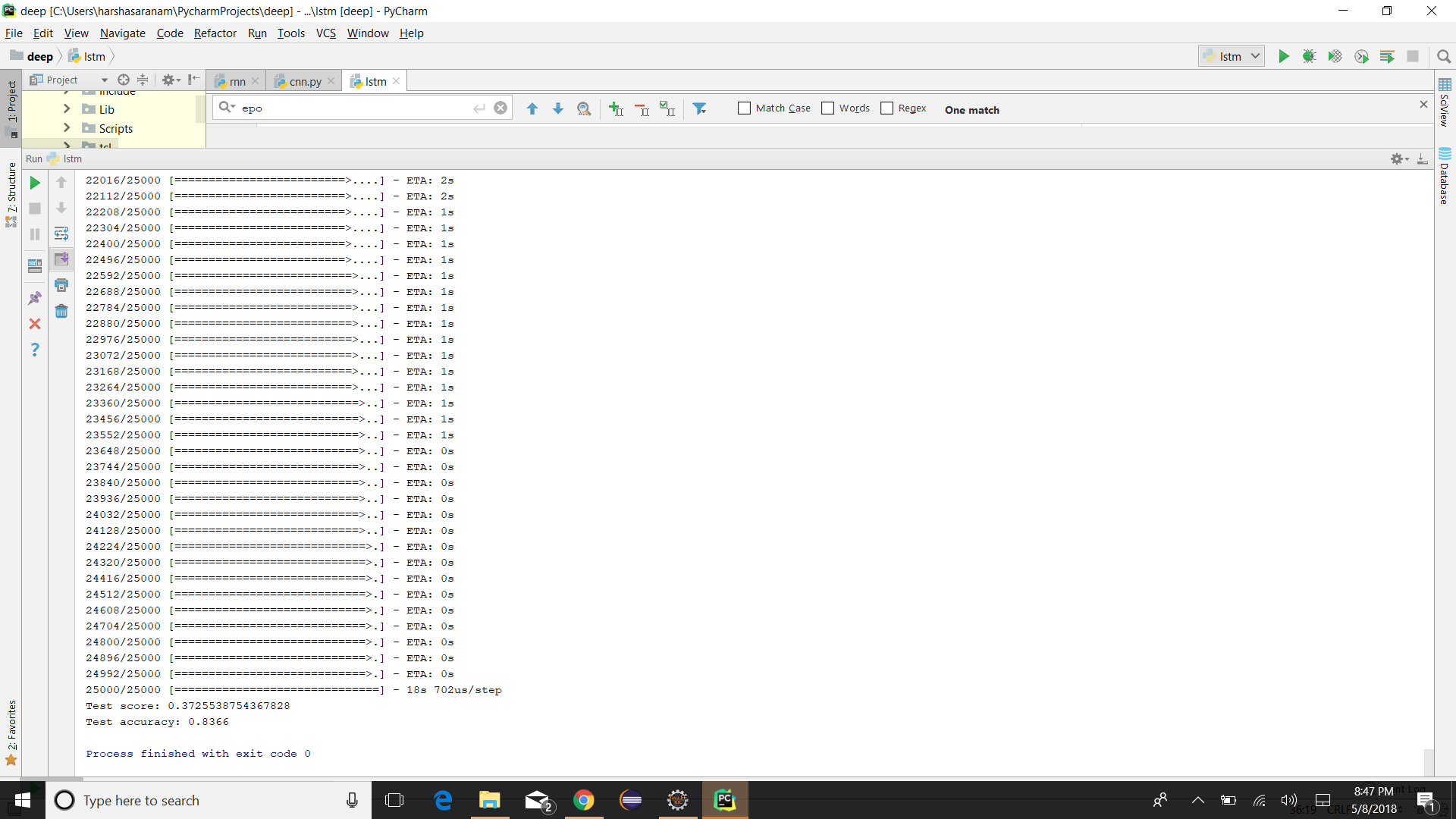
The output for the CNN classification is displayed below:



LSTM:



The output for the LSTM classification is:



Initially, we performed to extract the data from the dataset and we train it. Based on changes or else, we get the different accuracy rates and loss based on the parameters we changed in the code.

**Conclusion:**

Hence, I performed the CNN, RNN, LSTM classifications on the dataset inputted.