1.Question 1

In the basic sentiment analysis project that we just completed, we used the Keras API with TensorFlow as its back-end. True or False?

**True**

2.Question 2

Which of the following is true for the examples available in the IBDM reviews data-set?

**There are only 2 values for labels i.e. this is a binary classification problem.**

**There are 25000 examples in the training set and 25000 examples in the test set.**

3.Question 3

What was the dimension of the feature vectors we used for word embedding? Enter only the integer value below:

**16**

4.Question 4

Select all statements that are true:

**In the neural network architecture that we saw in the hands on project, we used the Embedding layer as the first layer.**

**We used a pooling layer to convert 2 dimensional data to 1 dimensional data before using any dense layers.**

5.Question 5

Which type of layer did we use as output while creating our model? Which activation function did we use for the output layer?

**Dense, Sigmoid**

**Basic Sentiment Analysis**

Basic Sentiment Analysis

LATEST SUBMISSION GRADE

88.88%

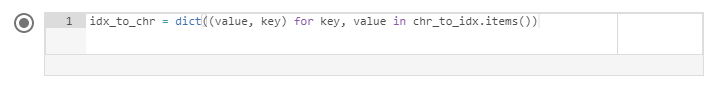
1.Question 1

If you have a data set of text reviews of various hotels, and you want to classify the reviews in one of three classes: negative, neutral or positive, which activation function would you use in the output layer?

**Softmax**

2.Question 2

In Python, which line of code converts the dictionary:



3.Question 3

If you trained an instance of the neural network model that we created in this project again - with the same training set, same settings and for same number of epochs, would you get exactly the same accuracy and same predictions on the test set?

**No**

4.Question 4

Assume that you have a data set of padded text reviews where each review is of 1000 word length. The total number of words in the lexicon is 10000. What would be the shape of each example if you used one-hot encoding on them? What would be the shape of each example if you used word embedding with a 64 dimensional feature vector for each word?

(10000, 1000) and (10000, 64)

5.Question 5

Consider the following "learned" 3 dimensional feature vectors for the given words:

Apple Orange Banana Blue

Feature #1 1.0 0.67 0.98 0.16

Feature #2 0.81 0.92 0.11 0.0

Feature #3 0.07 0.95 0.23 1.0

Given the model learns the following sentence:

My favorite shirt is blue in color.

Could it fill in the blanks in the following sentence? What would it fill?

My favorite hat is \_\_\_\_\_ in color.

**Yes. Blue**

**Yes. Orange**

6.Question 6

Refer to the word embedding table in Question 5. Roughly, what could the three features represent?

**#1 Fruit or Food**

**#2 Objects with Spherical Shape**

**#3 Color**