✓ **Congratulations! You passed!**
TO PASS 80% or higher

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GRADE
100%

Basic Sentiment Analysis

LATEST SUBMISSION GRADE

100%

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?

   1 / 1 point

   ◉ Softmax

   ○ Sigmoid

   ○ Relu

   > ✓ **Correct**
   > Correct! Note that we had 2 classes in the problem we solved in the hands on project, but in this question we have 3 classes.

2. In Python, which line of code converts the dictionary:

   1 / 1 point

   ```
   1  chr_to_idx = {0: "a", 1: "b", 2: "c"}
   ```

   into the following dictionary:

   ```
   1  idx_to_chr = {"a": 0, "b": 1, "c": 2}
   ```

   ◉
   ```
   1  idx_to_chr = dict((value, key) for key, value in chr_to_idx.items())
   ```

   ○
   ```
   1  idx_to_chr = dict((value, key) for key, value in chr_to_idx)
   ```

   ○
   ```
   1  idx_to_chr = dict((key, value) for key, value in chr_to_idx.items())
   ```

   > ✓ **Correct**
   > This is correct. This is how we created the reversed word index in Task 3.

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?

   1 / 1 point

   ○ Yes

   ◉ No

   > ✓ **Correct**
   > Correct! The result will be similar but not exactly the same.

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?

   1 / 1 point

   ○ (10000, 1000) and (1000, 64)

   ○ (10000, 64) and (10000, 64)

   ◉ (10000, 1000) and (10000, 64)

   > ✓ **Correct**

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

1 / 1 point

	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.

☐ No

☑ Yes. Orange

✓ **Correct**
Correct. Feature #3 is high for both orange and blue and it could represent something like a color.

☑ Yes. Blue

✓ **Correct**
Correct. Feature #3 is high for both orange and blue and it could represent something like a color.

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

1 / 1 point

○
- #1 Fruit or Food
- #2 Pie
- #3 Color

◉
- #1 Fruit or Food
- #2 Objects with Spherical Shape
- #3 Color

○
- #1 Pie
- #2 Objects with Spherical Shape
- #3 Color

✓ **Correct**
This could be a correct representation.