```
In [ ]:
         # Install TensorFlow
         # !pip install -q tensorflow-qpu==2.0.0-beta1
         try:
           %tensorflow_version 2.x # Colab only.
         except Exception:
           pass
         import tensorflow as tf
         print(tf.__version__)
         `%tensorflow_version` only switches the major version: `1.x` or `2.x`.
        You set: `2.x # Colab only.`. This will be interpreted as: `2.x`.
        TensorFlow 2.x selected.
         2.0.0-beta1
In [ ]:
         from tensorflow.keras.preprocessing.text import Tokenizer
         from tensorflow.keras.preprocessing.sequence import pad_sequences
In [ ]:
         # Just a simple test
         sentences = [
             "I like eggs and ham.",
             "I love chocolate and bunnies.",
             "I hate onions."
         ]
In [ ]:
         MAX_VOCAB_SIZE = 20000
         tokenizer = Tokenizer(num_words=MAX_VOCAB_SIZE)
         tokenizer.fit_on_texts(sentences)
         sequences = tokenizer.texts_to_sequences(sentences)
In [ ]:
         print(sequences)
         [[1, 3, 4, 2, 5], [1, 6, 7, 2, 8], [1, 9, 10]]
In [ ]:
         # How to get the word to index mapping?
         tokenizer.word_index
Out[]: {'and': 2,
          'bunnies': 8,
          'chocolate': 7,
          'eggs': 4,
          'ham': 5,
          'hate': 9,
          'i': 1,
          'like': 3,
          'love': 6,
          'onions': 10}
In [ ]:
         # use the defaults
         data = pad_sequences(sequences)
```

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print(data)
       [[1 3 4 2 5]
        [ 1 6 7 2 8]
        [001910]]
In [ ]:
        MAX SEQUENCE LENGTH = 5
        data = pad_sequences(sequences, maxlen=MAX_SEQUENCE_LENGTH)
        print(data)
       [[ 1 3 4 2 5]
        [ 1 6 7 2 8]
        [001910]]
In [ ]:
        data = pad_sequences(sequences, maxlen=MAX_SEQUENCE_LENGTH, padding='post')
        print(data)
       [[ 1 3 4 2 5]
        [ 1 6 7 2 8]
        [ 1 9 10 0 0]]
In [ ]:
        # too much padding
        data = pad_sequences(sequences, maxlen=6)
        print(data)
       [[0 1 3 4 2 5]
        [016728]
        [0 0 0 1 9 10]]
In [ ]:
        # truncation
        data = pad sequences(sequences, maxlen=4)
        print(data)
       [[ 3 4 2 5]
        [6728]
        [0 1 9 10]]
In [ ]:
        data = pad_sequences(sequences, maxlen=4, truncating='post')
        print(data)
       [[ 1 3 4 2]
        [ 1 6 7 2]
        [0 1 9 10]]
```