Predictions

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Creating the Prediction Script:

In [1]:

```
# Importing the Libraries

from tensorflow.keras.models import load_model
import numpy as np
import pickle

# Load the model and tokenizer

model = load_model('nextword1.h5')
tokenizer = pickle.load(open('tokenizer1.pkl', 'rb'))

def Predict_Next_Words(model, tokenizer, text):
    """
        In this function we are using the tokenizer and models trained
        and we are creating the sequence of the text entered and then
        using our model to predict and return the the predicted word.

    """
    for i in range(3):
        sequence = tokenizer.texts_to_sequences([text])[0]
        sequence = np.array(sequence)

        preds = model.predict_classes(sequence)
#         print(preds)
        predicted_word = ""

        for key, value in tokenizer.word_index.items():
            if value == preds:
                predicted_word = key
                break

        print(predicted_word)
        return predicted_word
```

In [2]:

```
"""
    We are testing our model and we will run the model
    until the user decides to stop the script.
    While the script is running we try and check if
    the prediction can be made on the text. If no
    prediction can be made we just continue.

"""

# text1 = "at the dull"
# text2 = "collection of textile"
# text3 = "what a strenuous"
# text4 = "stop the script"

while(True):

    text = input("Enter your line: ")

    if text == "stop the script":
        print("Ending The Program.....")
        break

    else:
        try:
            text = text.split(" ")
            text = text[-1]

            text = ''.join(text)
            Predict_Next_Words(model, tokenizer, text)

        except:
            continue
```

```
Enter your line: at the dull
weather
Enter your line: collection of textile
samples
Enter your line: what a strenuous
career
Enter your line: stop the script
Ending The Program.....
```