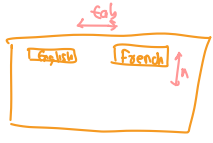
lib → numpy
→ Pandas

Import: tensorflow.keras.models → Model
tensorflow.keras.layers → Input, LSTM, Dense

Data: English to French



Input_text = English

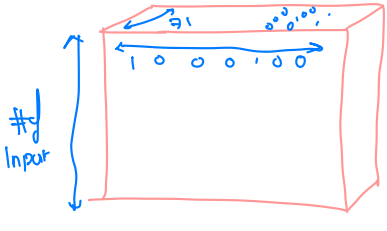
Target_Text = French

Step1 • while preparing data → also create a set for English & French Word
a = set()
Gives: # of Encoder tokens → 71
Gives: # of decoder_token → 92

Step2 • Now find Max Seq. length for English (Input) → 16
& French (Output) → 59

Step3: Create a dictionary: input_token_index = dict([(char, i) for i, char in enumerate(input_word)])
by for French

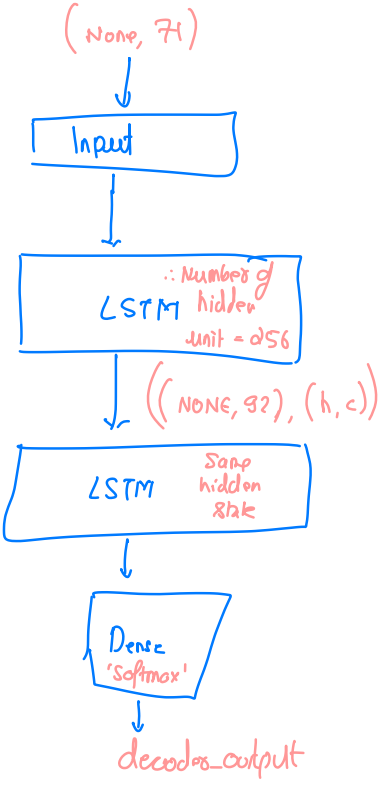
Step4: np.zeros
Encoder Input data = (# of Example in Input × Max_Encoding_Seq × number of encoder_token)
10,000 16 71



decoder_input_data = np.zeros(# of input examples, Max_decoder_seq_length, # of decoder token)

decoder_target_data = np.zeros(# of input examples, Max_decoder_seq_length, # of decoder token)

Step 5: functional api :



Step 6: model = Model([encoder_inputs, decoder_inputs], decoder_outputs)

Step 7: compile with → RMSProp, 'Categorical_crossentropy', Metric is accuracy

Step 8: fit: → batch_size = 64, epochs = 100, validation_split = 0.2

Step 9: Predict & Reverse look-up for token