```
import flask
import pandas
from flask import Flask, jsonify, request, render template, Response
from werkzeug.wrappers import Request, Response
import tensorflow as tf
import pickle
In [2]:
app = Flask(__name__)
In [ ]:
%%time
path = "pickles"
model = tf.saved_model.load(path)
In [ ]:
%%time
# loading the dumped file
filename = "model and tokenizers/tokenizer source.pkl"
with open(filename, 'rb') as file:
tokenizer_source = pickle.load(file)
filename = "model_and_tokenizers/tokenizer_target.pkl"
with open(filename, 'rb') as file:
  tokenizer target = pickle.load(file)
In [ ]:
max len=39
max_len_dec=44
In [ ]:
def predict_(input_sentence):
  input_sequence=tokenizer_source.texts_to_sequences([input_sentence])
  inputs=pad_sequences(input_sequence, maxlen=max_len, padding='post')
  inputs=tf.convert_to_tensor(inputs)
  result='
  units=128
  hidden=[tf.zeros((1,units))]
  encoder_output,hidden_state,cell_state=model.encoder(inputs)
  dec hidden=hidden state
  dec_input=tf.expand_dims([tokenizer_target.word_index['<start>']],0)
  for t in range(40):
      predictions, dec hidden, cell state, attention weights, context vector=model.decoder.onestepdecoder((dec input,
encoder output,dec hidden,cell state))
      predicted id=tf.argmax(predictions[0]).numpy()
      result+=tokenizer target.index word[predicted id]+' '
      if tokenizer_target.word_index['<end>']==predicted_id:
          return result
      dec_input= tf.expand_dims([predicted_id],0)
  return result
reference
# https://youtu.be/UbCWoMf80PY
In [ ]:
@app.route('/')
def index():
    return render_template('index.html')
In [ ]:
@app.route('/predict', methods=['POST'])
def predict():
    print("request", request.form.values())
    to_predict_list = [x for x in request.form.values()]
    sentence = to predict list[0]
    output = predict (sentence)
    return render_template('index.html', prediction_text='predicted output is {}'.format(output))
```

In [1]:

```
In [ ]:
```

```
# https://stackoverflow.com/questions/31252791/flask-importerror-no-module-named-flask
# this cell should always be in running
if __name__ == '__main__':
    from werkzeug.serving import run_simple
    run_simple('localhost', 9000, app)
```