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# Meet V-Bot: your friend
 import nltk
import warnings
warnings.filterwarnings("ignore")
# nltk.download() # for downloading packages
#import tensorflow as tf
import numpy as np
import random
 import string # to process standard python strings
f=open('nlp python answer finals.txt','r',errors = 'ignore')
m=open('modules pythons.txt','r',errors = 'ignore')
checkpoint = "./chatbot_weights.ckpt"
#session = tf.InteractiveSession()
#session.run(tf.global_variables_initializer())
 #saver = tf.train.Saver()
 #saver.restore(session, checkpoint)
 raw=f.read()
 rawone=m.read()
raw=raw.lower()# converts to lowercase
raws-raw.lower()# converts to lowercase
nltk.download('punkt') # first-time use only
nltk.download('wordnet') # first-time use only
sent_tokens = nltk.sent_tokenize(raw)# converts to list of sentences
word_tokens = nltk.word_tokenize(raw)# converts to list of words
sent_tokensone = nltk.sent_tokenize(raw)# converts to list of words
sent_tokensone = nltk.word_tokenize(raw)# converts to list of words
word_tokensone = nltk.word_tokenize(rawon)# converts to list of words
 sent_tokens[:2]
 sent_tokensone[:2]
 word_tokens[:5]
 word_tokensone[:5]
lemmer = nltk.stem.WordNetLemmatizer()
def LemTokens(tokens):
return [lemmer.lemmatize(token) for token in tokens]
remove_punct_dict = dict(ord(punct), None) for punct in string.punctuation)
def LemNormalize(text):
          return LemTokens(nltk.word tokenize(text.lower().translate(remove punct dict)))
Introduce_Ans = ["My name is V-Bot.","My name is V-Bot you can called me v.","Im V-Bot :) ","My name is V-Bot. and my nickname is v and i am happy to solve your queries :) "]

GREETING_INPUTS = ("hello", "hi","hiii","hiii","hiiii", "hiiii", "hiiii", "hiii", "hiiii", "liii", "greetings", "sup", "what's up", "hey",)

GREETING_RESPONIESE = ["hi", "hey", "hii there", "hi there", "hiiii", "greetings", "sup", "what's up", "hey", "b

GREETING_ENDOUGHE, "hiii", "hiii", "hiiii", "hiiii", "hiiii", "hiiii", "hiiii", "hiiii", "hiiii", "greetings", "sup", "what's up", "hey", "b

GREETING_ENDOUGHE, "hiii", "hiii", "hiiii", "hiiii", "greetings", "sup", "what's up", "hey", "b

GREETING_ENDOUGHE, "hiii", "hiii", "hiiii", "hiiii", "greetings", "sup", "what's up", "hey", "b

GREETING_ENDOUGHE, "hiii", "hiii", "hiiii", "hiiii", "greetings", "sup", "what's up", "hey", "b

GREETING_ENDOUGHE, "hiii", "hiii", "hiiii", "hiiii", "greetings", "sup", "what's up", "hey", "b

GREETING_ENDOUGHE, "hiii", "hiii", "hiiii", "hiiii", "greetings", "sup", "what's up", "hey", "b

GREETING_ENDOUGHE, "hiii", "hiii", "hiiii", "hiiii", "greetings", "sup", "what's up", "hey", "b

GREETING_ENDOUGHE, "hiii", "hiii", "hiiii", "hiiii", "greetings", "sup", "what's up", "hey", "b

GREETING_ENDOUGHE, "hiii", "hiii", "hiii", "hiiii", "hiiii", "hiii", "hiiii", "hiii", "hiiii", "hiiii", "hiii", "hiiii", "hiiii", "hiii", "hiiii", "hiiii",
languages use punctuation, and it has fewer syntactical constructions than other languages."

Basic_Om = ("what is module","what is module.","what is module ","what is module in python?","what is module in python?")
Basic_AnsM = ["Consider a module to be the same as a code library.","A file containing a set of functions you want to include in your application.","A module can define functions, classes and variables. A module can also include runnable code. Grouping related code into a module makes the code easier to understand and use."]
# Checking for greetings
def greeting(sentence):
    """If user's input is a greeting, return a greeting response"""
           for word in sentence.split():
    if word.lower() in GREETING_INPUTS:
        return random.choice(GREETING_RESPONSES)
# Checking for Basic_Q
def basic(sentence):
    for word in Basic_Q:
                    if sentence.lower() == word:
                               return Basic_Ans
 # Checking for Basic OM
 # Checking for basic_Qw
def basicM(sentence):
    """If user's input is a greeting, return a greeting response"""
    for word in Basic_Om:
                     if sentence.lower() == word:
return random.choice(Basic_AnsM)
# Checking for Introduce
def IntroduceMe(sentence):
    return random.choice(Introduce_Ans)
 from sklearn.feature_extraction.text import TfidfVectorizer
 from sklearn.metrics.pairwise import cosine similarity
 # Generating response
def response(user_response):
    robo_response=''
    sent_tokens.append(user_response)
            Tridfvec = Tridfvectorizer(tokenizer=LemNormalize, stop_words='english')
tfidf = Tfidfvec.fit_transform(sent_tokens)
vals = cosine_similarity(tfidf[-1], tfidf)
            idx=vals.argsort()[0][-2]
flat = vals.flatten()
flat.sort()
req_tfidf = flat[-2]
           if(req_tfidf==0):
    robo_response=robo_response+"I am sorry! I don't understand you"
                      return robo_response
           else:
                      robo_response = robo_response+sent_tokens[idx]
                      return robo response
# Generating response
def responseone(user_response):
           robo response='
          robo_response='
robo_response='
sent_tokensone.append(user_response)
TfidfVec = TfidfVectorizer(tokenizer=LemNormalize, stop_words='english')
tfidf = TfidfVec.fit_transform(sent_tokensone)
vals = cosine_similarity(tfidf[-1], tfidf)
idx=vals.argsort()[0][-2]
flat = vals.flatten()
```

flat.sort()
req_tfidf = flat[-2]
if(req_tfidf==0):

return robo_response

return robo_response

robo response=robo response+"I am sorry! I don't understand you'

robo response = robo_response+sent_tokensone[idx]