APIkey = 'DN8s9LBm8jMBFZihXEG2gqzx'

import requests  
import postcodes\_uk  
  
def is\_valid\_postcode(postcode):  
 """  
 This function takes one arguments and returns True or False.  
   
 Args:  
 postcode (str): The postcode  
   
 Returns:  
 bool: True if a valid postcode, otherwise returns False.  
 """  
 #making sure the postcode is in uppercase, required for validation  
 postcode = postcode.upper()  
 # using the postcodes\_uk library to validate the postcode  
 ret = postcodes\_uk.validate(postcode)  
 return ret  
  
def get\_MP\_info(postcode\_or\_constituency):  
 """  
 This function takes one argument, either the postcode or the constituency name, and returns the MP information from Hansard.  
   
 Args:  
 postcode\_or\_constituency (str): Postcode or a Constituency  
   
 Returns:  
 dict: The MP information from Hansard  
 """  
 # checks to see in the input is a valid postcode  
 params = {'key':APIkey}  
 if is\_valid\_postcode(postcode\_or\_constituency):  
 params['postcode'] = postcode\_or\_constituency  
 else:  
 params['constituency'] = postcode\_or\_constituency  
   
 url = 'https://www.theyworkforyou.com/api/getMP'  
 response = requests.get(url, params=params)  
 return response.json()

def get\_Hansard(person\_id):  
 """  
 This function takes one argument and returns the MP's person ID from Hansard.  
   
 Args:  
 personID (int): gets the relevent data from Hansard  
   
 Returns:  
 int: The personID from Hansard for the relevent MP  
 """  
 params = {'key':APIkey}  
 params['person'] = person\_id  
 url = 'https://www.theyworkforyou.com/api/getHansard'  
 response = requests.get(url, params=params)  
 data = response.json()  
 params['page'] = 1  
 # loops until we have all the pages  
 while True:  
 params['page'] += 1  
 response = requests.get(url, params=params)  
 data0 = response.json()  
 if len(data0['rows']) == 0:  
 break  
 data['rows'].extend(data0['rows'])  
 return data

get\_MP\_info('Tewkesbury')

{'member\_id': '42617',  
 'house': '1',  
 'constituency': 'Tewkesbury',  
 'party': 'Conservative',  
 'entered\_house': '2019-12-13',  
 'left\_house': '9999-12-31',  
 'entered\_reason': 'general\_election',  
 'left\_reason': 'still\_in\_office',  
 'person\_id': '10505',  
 'lastupdate': '2019-12-13 05:21:12',  
 'title': '',  
 'given\_name': 'Laurence',  
 'family\_name': 'Robertson',  
 'full\_name': 'Laurence Robertson',  
 'url': '/mp/10505/laurence\_robertson/tewkesbury',  
 'image': '/people-images/mpsL/10505.jpg',  
 'image\_height': 160,  
 'image\_width': 120,  
 'office': [{'moffice\_id': 'uk.parliament.data/Member/253/Committee/11/1',  
 'dept': 'Panel of Chairs',  
 'position': 'Member',  
 'from\_date': '2020-01-15',  
 'to\_date': '9999-12-31',  
 'person': '10505',  
 'source': ''}]}