```
# Import necessary packages
import sys
import requests
import re
import pandas as pd
get_ipython().run_line_magic('matplotlib', 'inline')
import matplotlib.pyplot as plt
import numpy as np
import urllib
import json
import urllib.request, urllib.parse, urllib.error
import ssl
# Get data from website
url = "https://skyscanner-skyscanner-flight-search-v1.p.rapidapi.com/apiservices/brows
headers = {
    'x-rapidapi-key': "f61128c512msh40ead389b17dbdfp16f199jsn29c5ca7ec2a5",
    'x-rapidapi-host': "skyscanner-skyscanner-flight-search-v1.p.rapidapi.com"
    }
data = requests.request("GET", url, headers=headers)
# make sure we got it
# print(data.text)
# Something smart u did that I didn't look into
ctx = ssl.create default context()
ctx.check hostname = False
ctx.verify mode = ssl.CERT NONE
# Load the JSON
try:
    js = json.loads(data.text)
except Exception as err:
    print(f"error: {err}")
    sys.exit(-1)
# Here is how you can look at your keys
print(js.keys())
#Here is how you retrieve data from a spacific key
print(js['Quotes'])
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27, 'DestinationId': 48018, 'DepartureDate': '2021-01-13T00:00:00'}, 'QuoteDateTi
quotes = js['Quotes']
flight\_info = \{0:[0,0,0], 1:[0,0,0], 2:[0,0,0], 3:[0,0,0], 4:[0,0,0], 5:[0,0,0], 6:[0,0,0]\}
# {day:[dir,indir,daycount],...}
# 1= friday
# 2= sat
# 3= sun
\# 4 = mon
# 5= tues
# 6= wed
# 0= thurs
total flights = 0
for q in quotes:
  print(q['MinPrice'])
  total flights +=1
  # update total flight count for that day
  dt = q['QuoteDateTime']
  d = dt.split(':')
  day = (int(d[-2]))%7
  flight info[day][2] +=1
  # Add count to correct day for dir or undir
  if q['Direct'] == 'true':
    flight_info[day][0] = flight_info[day][0] + (q['MinPrice']-flight_info[day][0])/1
  else:
    flight_info[day][1] = flight_info[day][1] + (q['MinPrice']-flight_info[day][1])/1
  # print(q.keys())
print('total flights: ', total flights)
print(flight_info)
    591
    593
    593
    595
    596
    596
    597
    606
    608
```

```
610
    total flights: 10
    \{0: [0, 0, 0], 1: [0, 594.5, 2], 2: [0, 599.5, 2], 3: [0, 595.0, 1], 4: [0, 608.1]\}
# Plot averages
import matplotlib.patches as mpatches
ys = np.asarray([0,1,2,3,4,5,6])
x dir = []
x_undir = []
for y in ys:
  x_dir.append(flight_info[y][0])
  x_undir.append(flight_info[y][1])
width = .35
ax = plt.subplot(111)
ax.bar(ys - width/2, x_dir, width, color='g', align='center')
ax.bar(ys + width/2, x_undir, width, color='b', align='center')
green = mpatches.Patch(color='g', label='direct flights')
plt.legend(handles=[green])
blue = mpatches.Patch(color='b', label='indirect flights')
plt.legend(handles=[blue])
plt.xticks(ticks = np.arange(7), labels = ['Thurs', 'Fri', 'Sat', 'Sun', 'Mon', 'Tues', 'Wec
plt.xlabel("Day of the week")
plt.ylabel("Avg Price (USD)")
plt.ylim(0,700)
plt.show()
```

