Przykładowy kod pełnej aplikacji:

```
# Dodanie do repozytorium pracy z aplikacją PySimpleGUI i `Commit/Push` a37
# uwaga na ilość uruchomień: 100 request ogólnie, później:
# {'error': {'code': 'usage_limit_reached', 'message': 'Your monthly usage
limit has been reached. Please upgrade your Subscription Plan.' }}
# wczytujemy niezbędne elementy
import sys
import requests
import PySimpleGUI as sg
from time import sleep
def get_flight_information(api_key: str):
   returned text = "No planes data."
   params = {
       'access_key': api_key,
       'flight status': 'active',
   data get = requests.get(
       f"http://api.aviationstack.com/v1/flights", params)
   data json = data get.json()
    # sprawdzamy, czy nie pojawia się jakiś błąd
    if "error" in data json:
       return data json["error"]["message"]
    # jeśli błędnie podamy api_key
   if data_get.status_code == 401:
       return data json["error"]["message"]
    # dane o lotach - w wersji FREE 100 rekordów
   flights = data json["data"]
   if flights:
        returned_text = "Data for flights: \n"
       for flight info in flights:
           output line = ""
           airline = flight info["airline"]
           flight = flight info["flight"]
           departure = flight info["departure"]
           arrival = flight info["arrival"]
           live = flight info["live"] # dostępne tylko dla części lotów
           output line += f"Flight number {flight['iata']} by
{airline['name']} - from {departure['airport']} to {arrival['airport']}\n"
           if live:
               output line += f"On {live['altitude']} meters with
{live['speed horizontal']} km/h.\n"
           output line += "-----
           returned text += output line
```

```
return returned text
# definiujemy wygląd aplikacji
app_layout = [
    [sg.Text("Please enter API KEY"), sg.Input("api key"), sg.Button("Check
today's flights")],
   [sg.Text(" " * 100)],
    [sg.Output(size=(100, 40), key="-OUTPUT-")],
    [sg.Button("Clear -OUTPUT-"), sg.Exit()],
window = sg.Window("Checking planes in air.", app_layout,
enable_close_attempted_event=True)
# używamy pętli nieskończonej, która działa aż do słowa kluczowego `break`
# pamiętajmy o PEP-8, wcięciach i bloku kodu -
https://www.python.org/dev/peps/pep-0008/#indentation
while True:
   # poniższe wywołanie otwiera okno i wczytuje dane
    event, values = window.read()
    # inny sposób sprawdzania - tu x nie spowoduje zniknięcia okna
    if event in (sg.WINDOW CLOSE ATTEMPTED EVENT, "Exit") and
sg.popup_yes_no('Do you really want to exit?') == 'Yes':
       print("Break and EXIT")
        break
    # dodajemy sprawdzenie wciśniętego przycisku
    if event == "Check today's flights":
       # sprawdzamy lot
        print("Checking....")
        api key = values[0]
        plane_info = get_flight_information(api_key)
        print(plane_info)
    # sprawdzamy naciśnięte przyciski
    if event == "Clear -OUTPUT-":
        window['-OUTPUT-'].update(value='')
# koniec programu
window.close()
print("End of application")
sys.exit()
```

Jeśli któraś z grup nie będzie w stanie samodzielnie stworzyć kodu, można popowiedziej jej ten kod. Wynikiem będzie aplikacja, która pozwoli pokazać informacje o samolotach w powietrzu.

Checking planes in air. Please enter API KEY 4f0cb9a05ca9e4b845e7fbd8002ac32d Check today's flights Checking.... Data for flights: Flight number O36873 by SF Airlines - from Tianhe International to Shenzhen On 8412.48 meters with 731.54 km/h. Flight number CI614 by China Airlines - from Hong Kong International to Taiwan Taoyuan International (Chiang Kai Shek International) Flight number O37303 by SF Airlines - from Shenzhen to Hangzhou Flight number CK263 by China Cargo - from Shanghai Pudong International to Hong Kong International Flight number EK7525 by Emirates - from Auckland International to Christchurch International Flight number CAO1083 by Air China Cargo - from Beijing Capital International to Nanjing Lukou International Airport Flight number HZ5653 by Aurora - from Irkutsk to Novyy Flight number ET1303 by Ethiopian Airlines - from Singapore Changi to Tullamarine Flight number LH9777 by Lufthansa - from Tullamarine to Singapore Changi Flight number OZ742 by Asiana Airlines - from Suvarnabhumi International to Seoul (Incheon) On 7414.26 meters with 734.832 km/h. Flight number SQ218 by Singapore Airlines - from Tullamarine to Singapore Changi Flight number UK8218 by Vistara - from Tullamarine to Singapore Changi Flight number TK9311 by Turkish Airlines - from Tullamarine to Singapore Changi Flight number NZ401 by Air New Zealand - from Auckland International to Wellington International Flight number SQ8524 by Singapore Airlines - from Singapore Changi to Taiwan Taoyuan International (Chiang Kai Shek International) Flight number UK8255 by Vistara - from Singapore Changi to Brisbane International Flight number DL7691 by Delta Air Lines - from Singapore Changi to Seoul (Incheon) Clear -OUTPUT-

Exit