In [19]:

```
import tkinter as tk
from PIL import Image, ImageTk
import requests
import PIL
```

In [2]:

```
HEIGHT=500
WIDTH=600

def test_function(entry):
    print('This is the entry: ', entry)

def format_response(weather):
    try:
        name = weather['name']
        desc = weather['weather'][0]['description']
        temp = weather['main']['temp']

        final_str = 'City: %s \nConditions: %s \nTemperature (°F): %s' % (name, desc, temp)
    except:
        final_str = 'There was a problem retrieving that information'

    return final_str

def get_weather(city):

    weather_key='cbf40c31dc6e53a5b63069b956572b3a'
    url= "https://api.openweathermap.org/data/2.5/weather"
    params = {'APPID': weather_key, 'q': city, 'units': 'imperial'}
    response = requests.get(url, params=params)
    weather = response.json()

    label['text'] = format_response(weather)

root=tk.Tk()
canvas=tk.Canvas(root,height=HEIGHT,width=WIDTH)
canvas.pack()

#background_image=tk.PhotoImage(file='weather.jpg')
#background_label=tk.Label(root,image=background_image)
#background_label.place(relwidth=1,relheight=1)

frame=tk.Frame(root,bg='#80c1ff',bd=5)
frame.place(relx=0.5,rely=0.1,relwidth=0.75,relheight=0.1,anchor='n')

entry = tk.Entry(frame,font=40)
entry.place(relwidth=0.65,relheight=1)

button=tk.Button(frame,text='Get Weather',font=40,command=lambda: get_weather(entry.get()))
button.place(relx=0.7,relheight=1,relwidth=0.3)

lower_frame = tk.Frame(root,bg='#80c1ff',bd=5)
lower_frame.place(relx=0.5,rely=0.25,relwidth=0.75,relheight=0.6,anchor='n')

label=tk.Label(lower_frame,text='This is label')
label.place(relwidth=1,relheight=1)

root.mainloop()
```

In [24]:

```
import tkinter as tk
import requests

HEIGHT = 500
WIDTH = 600

def test_function(entry):
    print("This is the entry:", entry)

# api.openweathermap.org/data/2.5/forecast?q={city name},{country code}
# a4aa5e3d83ffefaba8c00284de6ef7c3

def format_response(weather):
    try:
        name = weather['name']
        desc = weather['weather'][0]['description']
        temp = weather['main']['temp']

        final_str = 'City: %s \nConditions: %s \nTemperature (°F): %s' % (name, desc, temp)
    except:
        final_str = 'There was a problem retrieving that information'

    return final_str

def get_weather(city):
    weather_key = 'a4aa5e3d83ffefaba8c00284de6ef7c3'
    url = 'https://api.openweathermap.org/data/2.5/weather'
    params = {'APPID': weather_key, 'q': city, 'units': 'imperial'}
    response = requests.get(url, params=params)
    weather = response.json()

    label['text'] = format_response(weather)



root = tk.Tk()

canvas = tk.Canvas(root, height=HEIGHT, width=WIDTH)
canvas.pack()

#'C://Users/Anku/Documents/Python/weather.jpg'


image=Image.open('image_crop.png')
background_image = ImageTk.PhotoImage(image, master=root)
background_label = tk.Label(root, image=background_image)
background_label.image=image
background_label.place(relwidth=1, relheight=1)

frame = tk.Frame(root, bg='#80c1ff', bd=5)
frame.place(relx=0.5, rely=0.1, relwidth=0.75, relheight=0.1, anchor='n')

entry = tk.Entry(frame, font=40)
entry.place(relwidth=0.65, relheight=1)

button = tk.Button(frame, text="Get Weather", font=40, command=lambda: get_weather(entry.ge
button.place(relx=0.7, relheight=1, relwidth=0.3)

lower_frame = tk.Frame(root, bg='#80c1ff', bd=10)
```

```
lower_frame.place(relx=0.5, rely=0.25, relwidth=0.75, relheight=0.6, anchor='n')

label = tk.Label(lower_frame)
label.place(relwidth=1, relheight=1)

root.mainloop()
```

In [ ]: