

6.2 One Pager

Import dependencies

```
import json
import requests
from config import api_key
```

Build Query URL

```
url = "http://api.openweathermap.org/data/2.5/weather?"
city = "London"
```

```
# Build query URL
```

```
query_url = url + "appid=" + api_key + "&q=" + city
```

Call request and print response

```
weather_response = requests.get(query_url)
weather_json = weather_response.json()

# Get the temperature from the response
print(f"The weather API responded with: {weather_json}.")
```

Create dataframe from dict

```
weather_dict = {
    "city": cities,
    "lat": lat,
    "temp": temp
}
weather_data = pd.DataFrame(weather_dict)
weather_data.head()
```

Plot scatterplot

```
# Build a scatter plot for each data type
plt.scatter(weather_data["lat"], weather_data["temp"], marker="o")

# Incorporate the other graph properties
plt.title("Temperature in World Cities")
plt.ylabel("Temperature (Celsius)")
plt.xlabel("Latitude")
plt.grid(True)

# Save the figure
plt.savefig("TemperatureInWorldCities.png")

# Show plot
plt.show()
```

Handle exceptions

```
try:
    students["Jezebel"]
except KeyError:
    print("Oops, that key doesn't exist.")
```