## Instructions:

Evaluate the homework against the outlined criteria in the below rubric, assigning a rating to each criterion. Add points earned across all criteria and convert the total points to a letter grade, assigning a "+" or "-" letter grade designation at your discretion.

A (+/-)	90+	C (+/-)	40-64	F (+/-)	<15
B (+/-)	65-89	D (+/-)	15-39		

## Notes:

The deployed assignment utilizes the **OpenWeatherMap API** and the **citipy** library to complete the challenge. The source code should also be deployed to **Github** or **Gitlab**. For the Google Maps portion of the assignment there is no need to run the code and use your API, use the attached screenshots of the heat maps to grade.

## **Rubric for WeatherPy:**

	Mastery 20 points	Approaching Mastery 15 points	Progressing 10 points	Emerging 5-0 points	Incomplete
API Querying	✓ API Key was imported from external script and used as variable ✓ Correctly loops over the list of cities ✓ No errors interrupt the API call loop ✓ Prints out the current number and name of the city they are currently retrieving data for	✓ API Key was imported from external script and used as variable ✓ Correctly loops over the list of cities ✓ No errors interrupt the API call loop ✓ Does not print out the current number and name of the city they are currently retrieving data for	✓ API Key is hardcoded rather than stored in external file ✓ Correctly loops over the list of cities ✓ Some errors occur during the api call loop ✓ Does not print out the current number and name of the city they are currently retrieving data for	✓ API Key is hardcoded rather than stored in external file ✓ Loops over a static range rather than the length of the cities list ✓ Loop throws too many errors to complete ✓ Does not print out the current number and name of the city they are currently retrieving data for	No submission was received  -OR- Submission was empty or blank  -OR- Submission contains evidence of academic dishonesty

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Data Modeling	✓ A pandas dataframe is created and saved to a .csv from the data retrieved from the API.  For part I the dataframe contains 500+ rows in all of the following columns:  ✓ City latitude  ✓ City longitude  ✓ Max temperature  ✓ Humidity  ✓ Cloud coverage  ✓ Wind speed  ✓ City country  ✓ City datetime	✓ A pandas dataframe is created but not saved to a .csv from the data retrieved from the API.  The dataframe contains 500+ rows in 4-6 of the following columns: ✓ City latitude ✓ City longitude ✓ Max temperature ✓ Humidity ✓ Cloud coverage ✓ Wind speed ✓ City country ✓ City datetime	✓ A pandas dataframe is created, but not saved to a .csv from the data retrieved from the API.  The dataframe contains 300-500 rows or only has 2-3 of the following columns:  ✓ City latitude ✓ City longitude ✓ Max temperature ✓ Humidity ✓ Cloud coverage ✓ Wind speed ✓ City country ✓ City datetime	✓ A pandas dataframe is created, but not saved to a .csv from the data retrieved from the API.  ✓ The dataframe contains 200 or less rows or only has 1 column of data:  -OR-  ✓ A pandas dataframe is never created for either parts of the homework.	
	-AND- For part II a dataframe is created	-AND-	-AND- For part II a dataframe is created		
	that contains the following:	For part II a dataframe is created that contains at least the following:  City	but does not contain the following:  ✓ Ten or less rows.  ✓ Hotel Name		
	<ul> <li>✓ Ten or less rows.</li> <li>✓ City</li> <li>✓ Country</li> <li>✓ Latitude</li> <li>✓ Longitude</li> <li>✓ Hotel Name</li> </ul>	✓ Latitude ✓ Longitude ✓ Hotel Name	V notel Name		
	A plot is created with a title, axis labels and saved as a .png file for all of the following:	A plot is created for all of the following, but may omit a title, axis labels, or both:	A plot is created for 2-3 of the following, and may omit a title, axis labels, or both:	✓ 1 plot is created, but may be incorrect	
	✓ Latitude vs Temp ✓ Latitude vs Humidity	✓ Latitude vs Temp ✓ Latitude vs Humidity	✓ Latitude vs Temp ✓ Latitude vs Humidity	-OR-	
	✓ Latitude vs Cloudiness ✓ Latitude vs Wind Speed	✓ Latitude vs Cloudiness ✓ Latitude vs Wind Speed	✓ Latitude vs Cloudiness ✓ Latitude vs Wind Speed	✓ No plots are created	
Plot Creation	-AND-	-AND-	-AND-		
	A plot is created for linear regression with a title, axis label and saved as a .png file for all of the following:  V Northern Hemisphere - Temperature (F) vs.	A linear regression plot is created for all of the following, but may omit a title, axis labels or both:  Northern Hemisphere - Temperature (F) vs. Latitude	A plot is created for 2-3 of the following or not split into hemispheres, and may omit a title, axis labels, or both:  Verthern Hemisphere - Temperature (F) vs.		

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	Latitude  / Southern Hemisphere - Temperature (F) vs. Latitude  / Northern Hemisphere - Humidity (%) vs. Latitude  / Southern Hemisphere - Humidity (%) vs. Latitude  / Northern Hemisphere - Cloudiness (%) vs. Latitude  / Southern Hemisphere - Cloudiness (%) vs. Latitude  / Northern Hemisphere - Wind Speed (mph) vs. Latitude  / Southern Hemisphere - Wind Speed (mph) vs. Latitude  / Southern Hemisphere - Wind Speed (mph) vs. Latitude  / Latitude	✓ Southern Hemisphere - Temperature (F) vs. Latitude ✓ Northern Hemisphere - Humidity (%) vs. Latitude ✓ Southern Hemisphere - Humidity (%) vs. Latitude ✓ Northern Hemisphere - Cloudiness (%) vs. Latitude ✓ Southern Hemisphere - Cloudiness (%) vs. Latitude ✓ Northern Hemisphere - Wind Speed (mph) vs. Latitude ✓ Southern Hemisphere - Wind Speed (mph) vs. Latitude ✓ Southern Hemisphere - Wind Speed (mph) vs. Latitude	Latitude  / Southern Hemisphere - Temperature (F) vs. Latitude / Northern Hemisphere - Humidity (%) vs. Latitude / Southern Hemisphere - Humidity (%) vs. Latitude / Northern Hemisphere - Cloudiness (%) vs. Latitude / Southern Hemisphere - Cloudiness (%) vs. Latitude / Northern Hemisphere - Wind Speed (mph) vs. Latitude / Southern Hemisphere - Wind Speed (mph) vs. Latitude / Southern Hemisphere - Wind Speed (mph) vs. Latitude / Latitude / Latitude		
Data Analysis	✓ Analysis correctly describes 3 observable trends ✓ Analysis provides sound reasoning to back up why all 3 trends are occurring.	✓ Analysis correctly describes 3 observable trends ✓ Analysis provides some reasoning to back up why the trends are occurring.	✓ Analysis describes only 2 observable trends ✓ Analysis provides little to no reasoning to back up why trends are occurring.	<ul> <li>✓ Analysis only describes 1         observable trend</li> <li>✓ Analysis is missing and/or does         not contain any evidence to support         their claim(s)</li> </ul>	
Google Maps	✓ A heat map is successfully created.  -AND-  A second map is created that contains: ✓ Ten or less pins for all the cities in the dataFrame. ✓ Pins are clickable to display City, Country and Hotel Name ✓ Placed on top of the heatmap.	✓ A heat map is successfully created.  -AND-  A second map is created that contains: ✓ Ten or less pins for all the cities in the dataFrame. ✓ Placed on top of the heatmap.	✓ A heat map was attempted but does not display correctly.  -AND-  A second map is created that contains:  ✓ More than ten pins.  ✓ Not placed on top of the heatmap.	✓ A heat map and a second map were attempted but does not display correctly.  -OR- ✓ No maps were displayed.	