	Mastery	Approaching Mastery	Progressing	Emerging	Incomplete
Get the Weather Description and Amount of Precipitation for Each City **(30 points)**	✓ Deliverable retrieves the following information from the API call: • Latitude and longitude • Maximum temperature • Percent humidity • Percent cloudiness • Wind speed • Weather description • Using a try-except block, if it is raining, get the amount of rainfall in inches for the last three hours. If it is not raining, add 0 inches for the city. • Using a try-except block, if it is snowing, the amount of snow in inches for the last three hours. If it is not snowing, add 0 inches for the city. ✓ Add data listed above to the DataFrame ✓ Save DataFrame as a CSV ✓ Use Pandas to correctly answer this question: How many cities have recorded rainfall or snow?	✓ Deliverable retrieves the following information from the API call, with one or two minor errors. • Latitude and longitude • Maximum temperature • Percent humidity • Percent cloudiness • Wind speed • Weather description • Using a try-except block, if it is raining, get the amount of rainfall in inches for the last three hours. If it is not raining, add 0 inches for the city. • Using a try-except block, if it is snowing, the amount of snow in inches for the last three hours. If it is not snowing, add 0 inches for the city. ✓ Add data listed above to the DataFrame ✓ Use Pandas to correctly answer this question: How many cities have recorded rainfall or snow?	✓ Deliverable retrieves the following information from the API call, with minor errors and the exception of either the try-except block for rainfall or snowfall. • Latitude and longitude • Maximum temperature • Percent humidity • Percent cloudiness • Wind speed • Weather description • Using a try-except block, if it is raining, get the amount of rainfall in inches for the last three hours. If it is not raining, add 0 inches for the city. • Using a try-except block, if it is snowing, the amount of snow in inches for the last three hours. If it is not snowing, add 0 inches for the city. ✓ Add data listed above to the DataFrame ✓ Use Pandas to answer this question: How many cities have recorded rainfall or snow?	✓ Deliverable retrieves the following information from the API call, with significant errors and the exception of either the try-except block for rainfall or snowfall. • Latitude and longitude • Maximum temperature • Percent humidity • Percent cloudiness • Wind speed • Weather description • Using a try-except block, if it is raining, get the amount of rainfall in inches for the last three hours. If it is not raining, add 0 inches for the city. • Using a try-except block, if it is snowing, the amount of snow in inches for the last three hours. If it is not snowing, add 0 inches for the city. ✓ Add data listed above to the DataFrame	No submission was received -OR- Submission was empty or blank -OR- Submission contains evidence of academic dishonesty

Have Customers Narrow Their Travel Searches Based on Temperature and Precipitation **(40 points)**	✓ Filter the `city_data_df` DataFrame using prompts by the customer to get the following information ● Minimum temperature preference. ● Maximum temperature preference. ● To answer if he or she would like it to be raining or not, using input. ● To answer if he or she would like it to be snowing or not, using input ✓ Creates a new DataFrame from the user prompts with the following columns: ● City ● Country ● Max Temp ● Current Description ● Lat ● Lng ✓ A hotel is added to the new DataFrame using the Google API ✓ Save and upload the DataFrame to a CSV file. ✓ Creates a marker layer map with a pop-up marker for each city that includes: ● Hotel name ● City ● Country ● Current weather description with the maximum temperature ✓Save and upload the new marker layer map as PNG	✓ Filter the `city_data_df` DataFrame using prompts by the customer to get the following information ● Minimum temperature preference. ● Maximum temperature preference. **And,** ● To answer if he or she would like it to be raining or not, using input. **Or,** ● To answer if he or she would like it to be snowing or not, using input ✓ Creates a new DataFrame from the user prompts with the following columns: ● City ● Country ● Max Temp ● Current Description ● Lat ● Lng ✓ A hotel is added to the new DataFrame using the Google API ✓ Save and upload the DataFrame to a CSV file ✓ Creates a marker layer map with a pop-up marker for each city that includes: ● Hotel ● City ● Country ● Current weather description with the maximum temperature ✓Save and upload the new marker layer map as PNG	✓ Filter the `city_data_df` DataFrame using prompts by the customer to get the following information ● Minimum temperature preference. ● Maximum temperature preference. **And,** ● To answer if he or she would like it to be raining or not, using input. ✓ Creates a new DataFrame from the user prompts with at least four of the following columns: ● City ● Country ● Max Temp ● Current Description ● Lat ● Lng ✓ A hotel is added to the new DataFrame using the Google API ✓ Save and upload the DataFrame to a CSV file ✓ Creates a marker layer map with a pop-up marker for each city that includes: ● Hotel ● City ● Country ● Maximum temperature ony ✓Save and upload the new marker layer map as PNG	✓ Filter the `city_data_df` DataFrame using prompts by the customer to get the following information ● Minimum temperature preference. ● Maximum temperature preference. ✓ Creates a new DataFrame from the user prompts with at least three of the following columns: ● City ● Country ● Max Temp ● Current Description ● Lat ● Lng ✓ A hotel is added to the new DataFrame using the Google API ✓ Save and upload the DataFrame to a CSV file ✓ Creates a marker layer map with a pop-up marker for each city that includes: ● City ● Country ● Maximum temperature only ✓Save and upload the new marker layer map as PNG	

Create a Travel Itinerary with a Corresponding Map **(30 points)**	✓ Creates a directions layer map for a route between four cities. ✓ Creates a marker layer map for the four cities, each which have the following information: ● Hotel name ● City ● Country ● Current weather description with the maximum temperature ✓Save and upload the directions layer map as PNG. ✓Save and upload the new marker layer map for the four cities as PNG	✓ Creates a directions layer map for a route between ***three*** cities. ✓ Creates a marker layer map for the three cities, each which have the following information: ● Hotel ● City ● Country ● Current weather description with the maximum temperature ✓Save and upload the directions layer map as PNG. ✓Save and upload the new marker layer map for the four cities as PNG	✓ Creates a directions layer map for a route between ***three*** cities. ✓ Creates a marker layer map for the three cities, one or two of which are missing some of the below information. ● Hotel ● City ● Country ● Maximum temperature ony ✓Save and upload the directions layer map as PNG. ✓Save and upload the new marker layer map for the four cities as PNG	✓ Creates a directions layer map for a route between ***two*** cities. ✓ Creates a marker layer map for the two cities, each which have the following information: ● City ● Country ● Maximum temperature only ✓Save and upload the directions layer map as PNG. ✓Save and upload the new marker layer map for the four cities as PNG	