***Exploring how climate will impact plant-insect distributions***

***and interactions using open data and informatics***

**Part 5: Synthesis and Reflection of Group Projects**

**- Instructions and Assignment -**

**Learning Goal and Objective:**

4. Synthesize potential outcomes of the effects of climate change on plant-insect interactions

1. Formulate hypotheses on the general effects of climate change on plant-insect interactions by comparing and contrasting results from group projects in class

**Instructions:**

Please address each question in one single spaced page or less. Each question is worth 10 points and will be evaluated based on the quality of your answer. In your responses, consider information from the group work module (slides, readings, and handouts are still available on Canvas for your reference) and information from the presentations you heard from your peers, as well as critical reflection of your own work in each class.

1. (10 pts) ***Reflection***. Our work on this project made use of citizen science data and data science tools. First, reflect on your experience and understanding of citizen science and data science tools before and after this project. Then, make an informed argument as to the impact these areas can have on the study of ecology or climate change. Many of you asked excellent questions about the problems associated with Citizen Science data; how this affect your argument?
2. (10 pts) ***Synthesis***. Today you have heard five presentations (not including your own) about butterfly-host plant interactions. Articulate one or two take-home messages that are supported by the outcomes you heard in the presentations today. Please use specific examples from at least three presentations. Then, describe what you think would be the next best step in studying your butterfly host-plant interaction over time.