EOSC 211: Intro Activity: Making Observations

Name 1:

Name 3:
GOALS: (1) Make observations from CO ₂ and temperature records to (1) decide how CO ₂ and temperature have been and are, changing, (2) practice and example of "doing calculations by hand" to provide test data for coding, (3) practice very rudimentary "algorithm design".
A. Make 3 observations about each of the temperature and CO ₂ records
Temp1
Temp2
Temp3
CO2-1
CO2-2.
CO2-3.
B. Write down one question you have about each record. (Try to pick a different question for each one).
1
2
C. Estimate (from the graphs) by how much temperature and CO_2 have between 1960 and the present.
Temperature:
CO2:

Name 2:

temperature, and CO ₂ (i.e. an average value per month of CO ₂ and temperature) in each column and you wanted to write code to do the calculation in C. What would your code need to do? Try to break this down into very explicit steps (any number of steps)
Step 1:
Step 2:
Step 3:
Step 4:
Step 5:
Step 6:
D. Based on the data in the CO_2 plot, for how long do you think you need to observe CO_2 to decide whether it is increasing? Write down how you decided this.
How long?
Reason?
E. Based on the data in the temperature plot, for how long do you think you need to observe temperature to decide whether it is increasing? Write down how you decided this.
How long?
Reason?

D. Imagine you have a file that contains the data needed to make the plot in 4 columns with year, month,



