**Cookout Estimation**

**Project Design**

* Print Welcome
* Ask user’s name
* Ask user the amount of guest
* Ask user if wants us to serve burgers
* While loop if the customer enters other inputs other than “Y” or “N”
  + If customer say Yes
    - Ask how many burgers for each question
    - break
  + Else If customer say No
    - break
  + Else
    - Ask user to re-enter again Y or N
    - Loop the entire while-loop
* End While-loop
* Same while-loop for burgers
* Same while-loop for salads
* Calculate minimum packages needed and leftover
* Print the results

*Early Submission Current Progress:*

I have finished writing the front-end of the program. However, there are still some calculations left that needs to be done. I haven’t done them yet because of matter of time, but I will definitely do it this incoming week. The user interface for this program was easy to code at first hand by only using print(), and input(), and while loops, yet the calculations were the challenges ones. In order to calculate the minimum packages needed, I had to import the library math so that I could use the math.ceil(), which rounds the float number to the next greater integer, to get an integer of packages since we can't have part of a food package. On the other hand, for the leftover calculation, I used the data obtained from the minimum packages needed calculation to calculate the total amount of leftover for each food. Finally, I still need to do more calculations like the added salad food option, the meal option, profit margin, catering cost, out of pocket cost. Overall, I have finished writing most of the program. I think I miss a while loop at the beginning of the program so that the costumer can compute multiple estimates.

**Test Cases and Screenshots**

**Learning Experience**

* While loop to re-enter user data
* Using the math library math.ceil() to round numbers
* Using f-string to easily concatenate variables in a string

**Assumptions**

* The user will choose ‘Y’ or ‘N’ or ‘y’ or ‘n’, when asked for serving foods
* The user will enter an integer for the amount of type of food
* The user will enter an integer for the number of guests
* The user may enter a string other than ‘Y’ or ‘N’, but the program will ask user to re-enter the value