

- **Understanding:**

Assignment 3.a will ask a user for how many integers they would like to input and then ask them to enter those integers. The program will then be able to output, to the user, the min and max from their data set.

For this project, from chapter 5, it will need a while loop with a counter. The purpose of the loop is to allow the user to input all their integers. The while loop will be located after the statement to enter integers. The input for this statement will have to be in the loop so that the user can keep inputting integers until their specified amount is met. For each integer entered the counter will add 1 till the integer specification is met.

From chapter 4, there will need to be some if statements within the while loop. These if statements will compare each of the users inputs and determine if the integer qualifies to be the min or max. Once all the integers have been entered, and the counters condition is satisfied, the min and max will then be outputted to the screen and the program ends.

- **Testing Plan:**

Description	Expected Result
User wants 3 integers & inputs: -905, 524, & 3	Min: -905 Max: 524
User wants 1 integer & inputs: 345	Min: 345 Max: 345
User inputs: 152, 63, & -1000	Min: -1000 Max: 152
User inputs: 2147483648	Too large for an int to hold.
User wants 5 integers and enters -5	The while loop will be skipped and trash will be outputted for min and max.
User enters a Character as an input of one of their integers. User enters 20b instead of 206.	The program should only use the integer portion and output 20 as min and max
Inputs: 50, -60, 7085, & -805b	Min: -805 Max: 7085

- **Design:**

Get how many integers to enter from user Get number of integers	Is user input < current min? User input = current min
Enter your integers	Is user input > current max? User input = current max
While (number of integers > counter) Get integers from user Add 1 to counter	Loop back until counter = number of integers Output the min and max