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COMSC 140 Python

Program Documentation for As. 4-4 Find Min Max

1/ Link

<https://github.com/DVC-COMSC/assignment-4-4-enduringwriter/blob/main/main.py>

2/ Program Purpose  
The purpose of this program is to find the least and greatest values among five user input values and save these values to the list ‘numbers’.

3/ Input/Output Description  
Input: The program takes 5 integer inputs from the user and stores them in a list named ‘numbers’.  
Output: The program outputs all elements in the list on the first line and prints the greatest and least values on the second line.

4/ Explanation of All Variables  
Numbers - A list that stores the 5 integer inputs provided by the user.  
Minval - A variable that stores the minimum value found in the numbers list.  
Maxval - A variable that stores the maximum value found in the numbers list.

5/ Flow Chart  
Start > Input five integers and store them in a list named ‘numbers’ > Validate inputs are integers > Initialize ‘minval’ and ‘maxval’ with the first element of numbers > Loop through numbers to find min and max values, and update ‘minval’ and ‘maxval’ accordingly > Print all elements in ‘numbers’ list in a line of output > Print ‘maxval’ and ‘minval’ in the next line output > End

6/ Lesson Learned  
I learned how to collect user inputs into a list using a loop and to iterate through that list of elements by applying conditional statements to find the min and max values.

7/ Errors

None. However, for the ‘pytest -rP’ to run successfully, I had to remove the error handling that I had originally included.