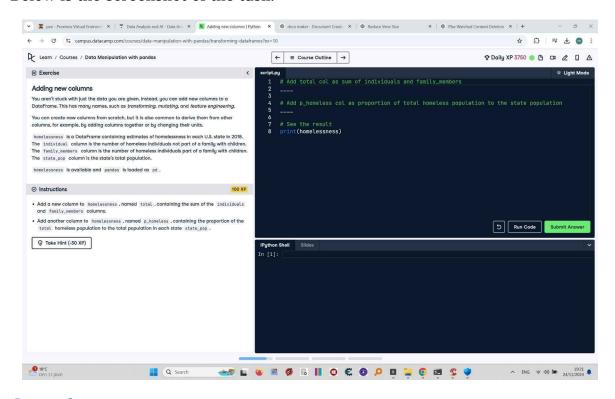
Adding New Columns

This document includes the question, the solution, and a breakdown of the code provided in the screenshot.

Uploaded Screenshot

Below is the screenshot of the task:



Question

Add a new column to `homelessness`, named `total`, containing the sum of the `individuals` and `family_members` columns. Add another column to `homelessness`, named `p_homeless`, containing the proportion of the `total` homeless population to the total population in each state, `state pop`. View the printed result.

Answer

Add total column as sum of individuals and family_members homelessness['total'] = homelessness['individuals'] + homelessness['family_members']

Add p_homeless column as proportion of total homeless population to state population homelessness['p_homeless'] = homelessness['total'] / homelessness['state pop']

See the result print(homelessness)

Code Explanation

Explanation of the code:

- 1. `homelessness['total'] = homelessness['individuals'] + homelessness['family_members']`: Adds a new column named `total` to the `homelessness` DataFrame. This column is calculated by summing the values in the `individuals` and `family members` columns.
- 2. `homelessness['p_homeless'] = homelessness['total'] / homelessness['state_pop']`: Adds a new column named `p_homeless` to the `homelessness` DataFrame. This column is calculated as the proportion of the `total` homeless population to the state's total population (`state pop`).
- 3. `print(homelessness)`: Prints the updated DataFrame to verify that the new columns have been added and calculated correctly.