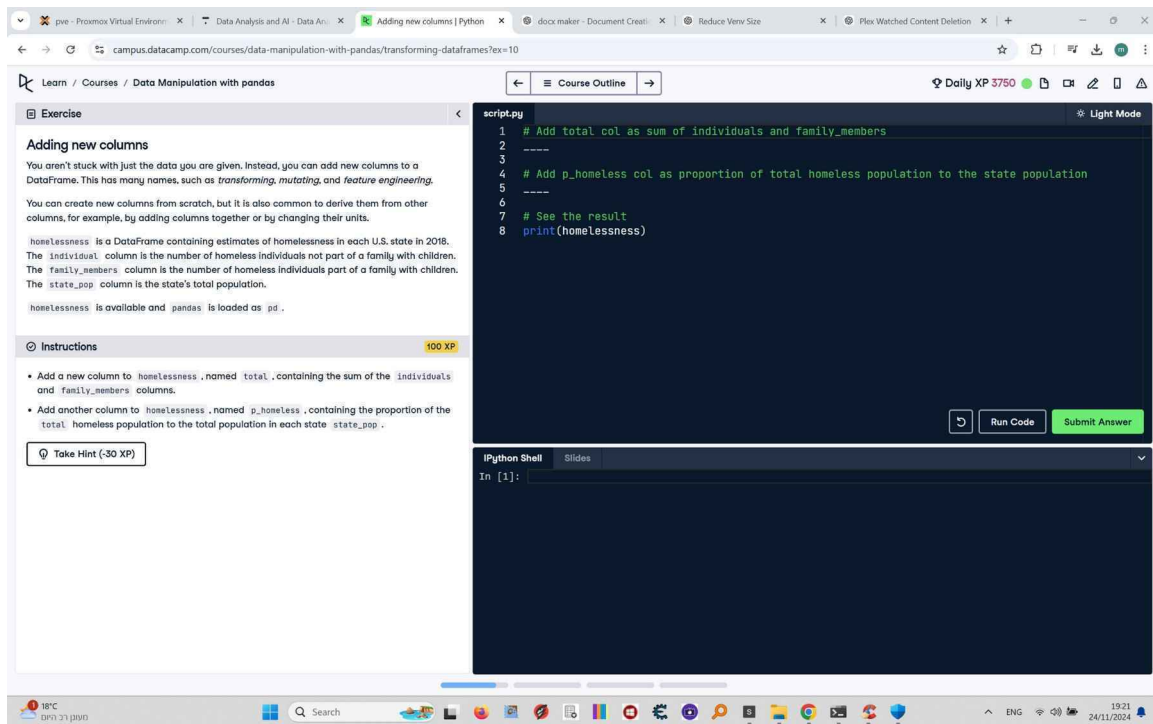


## Adding New Columns

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.