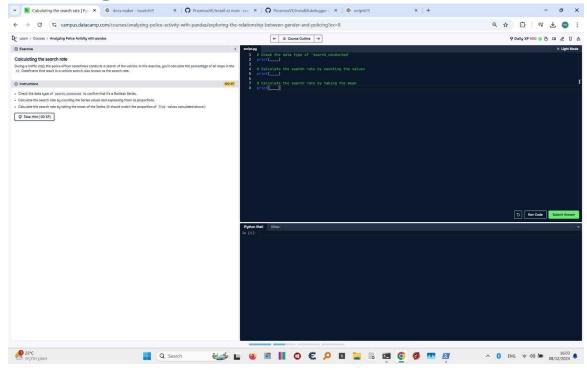
## **Calculating the Search Rate**



## **Task Description**

- 1. Check the data type of 'search\_conducted' to confirm that it's a Boolean Series.
- 2. Calculate the search rate by counting the Series values and expressing them as proportions.
- 3. Calculate the search rate by taking the mean of the Series (it should match the proportion of True values calculated above).

## **Code Solution**

- # Check the data type of 'search\_conducted' print(ri['search\_conducted'].dtype)
- # Calculate the search rate by counting the values
  print(ri['search\_conducted'].value\_counts(normalize=True))
- # Calculate the search rate by taking the mean print(ri['search conducted'].mean())

## **Code Explanation**

1. The line 'print(ri['search\_conducted'].dtype)' confirms the data type of the 'search\_conducted' column. It should be of Boolean type (True/False values) for proper calculations.

2. The line 'print(ri['search\_conducted'].value\_counts(normalize=True))' calculates the proportion of True and False values in the 'search\_conducted' column. The normalize=True argument expresses the counts as proportions.

3. The line 'print(ri['search\_conducted'].mean())' calculates the mean of the Boolean Series, which represents the proportion of True values (i.e., the search rate). This method provides the same result as the normalized value count.