Question 1:

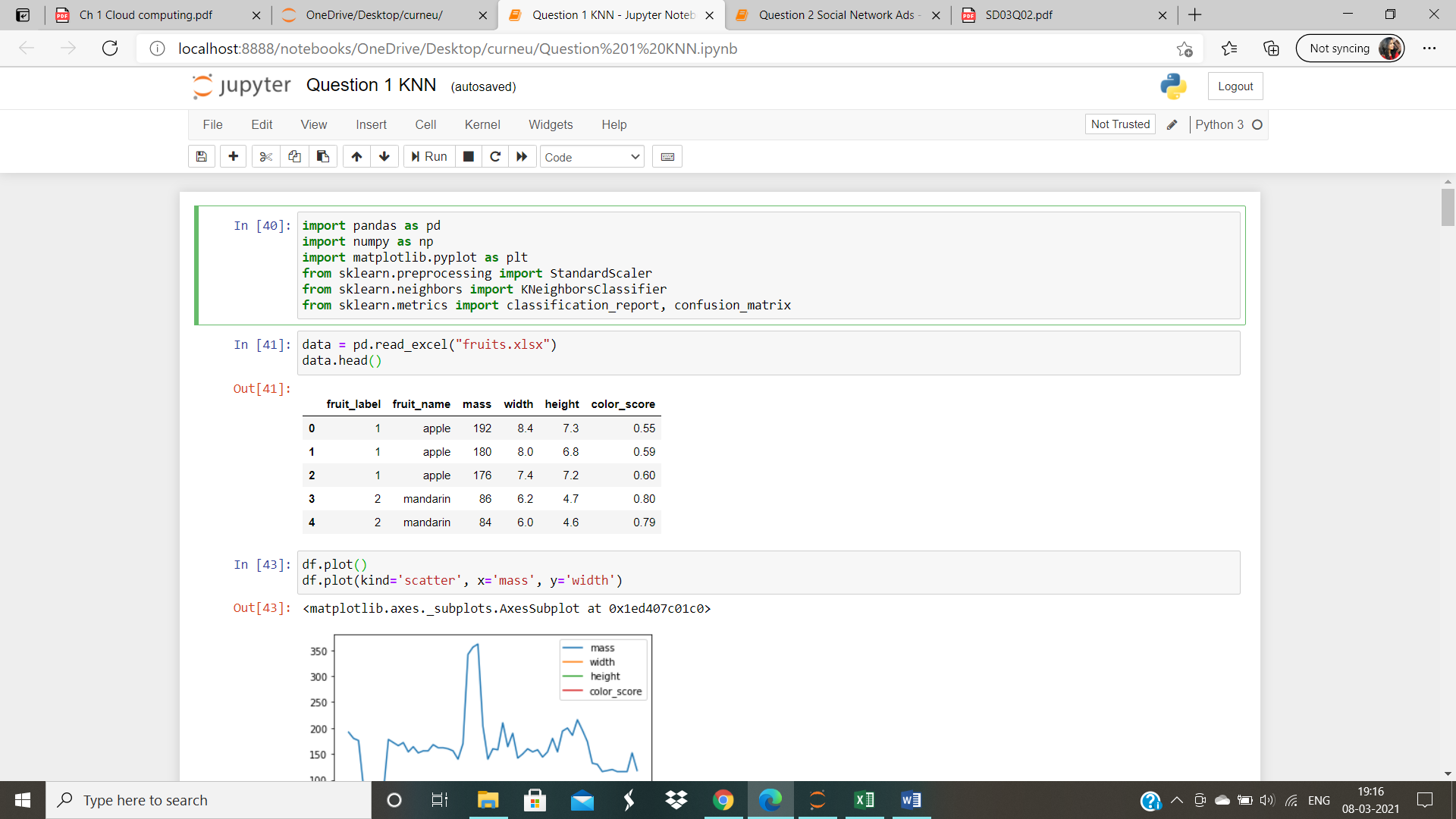
Fruits Question.

Building KNN classifier model from the scratch.

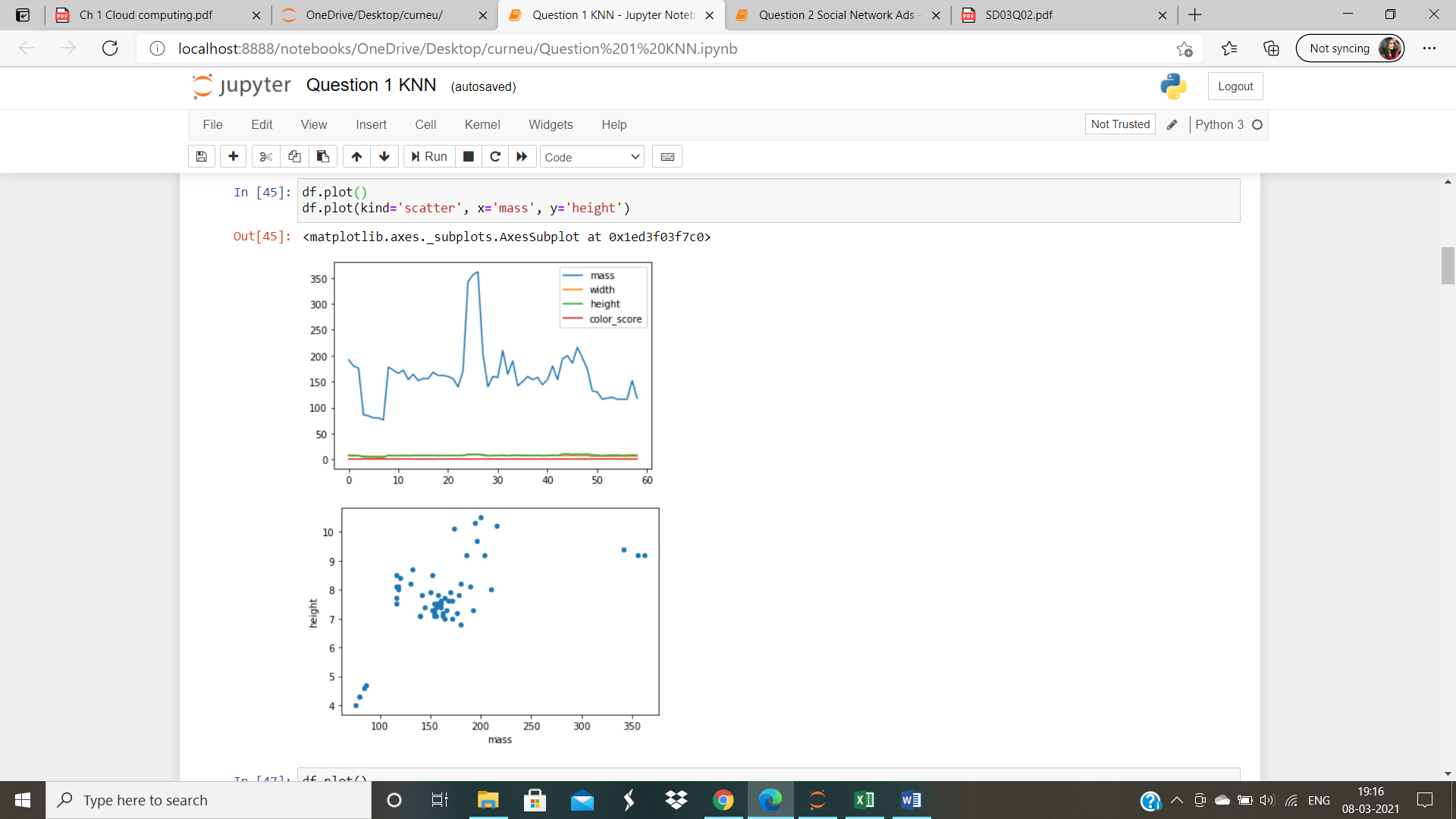
Cell 1: Importing the dataset

Cell 2: Snippet of the dataset.

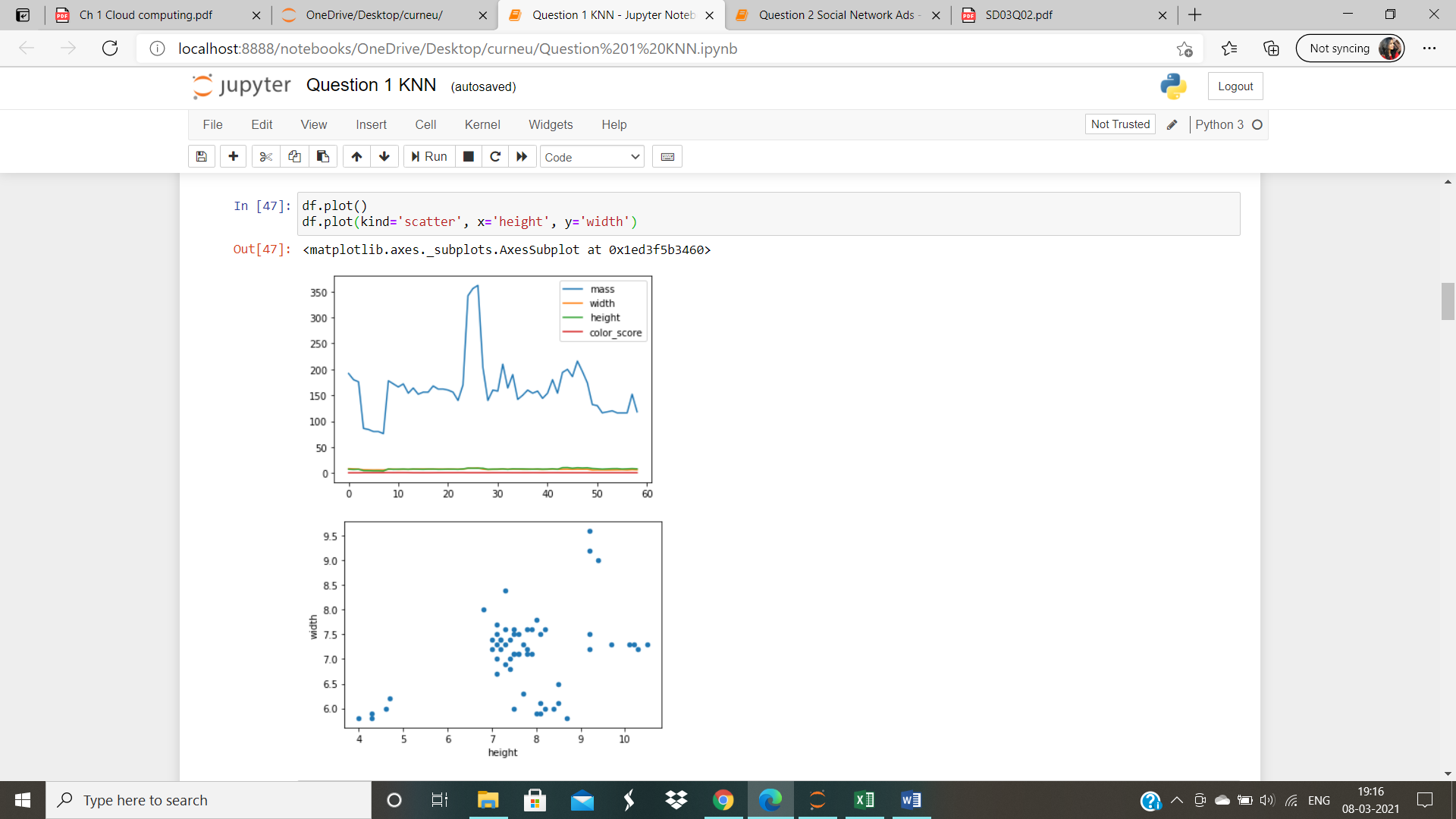
Cell 3: Scatter plot of mass and width



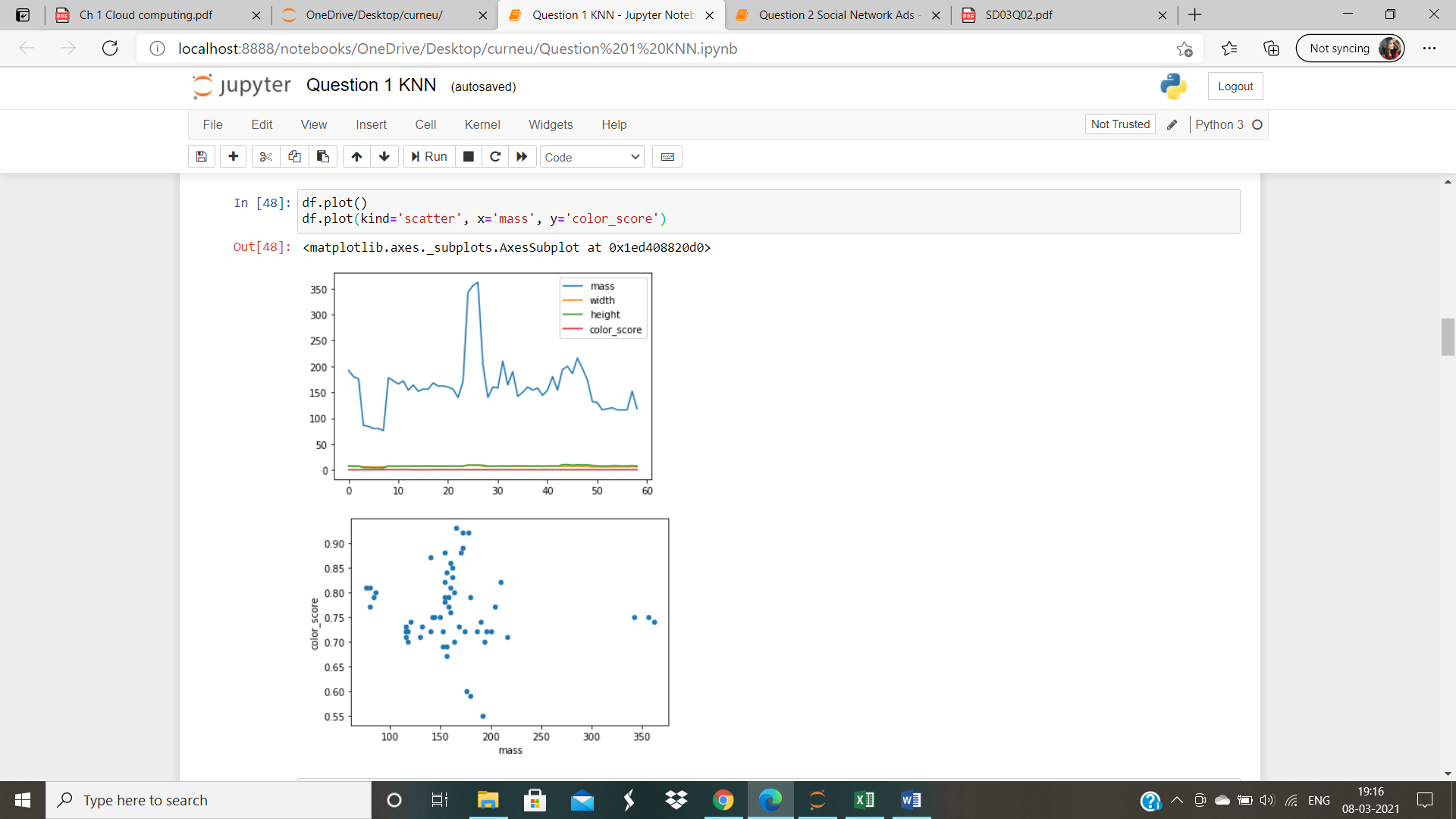
Cell 4: Scatter plot of mass and height



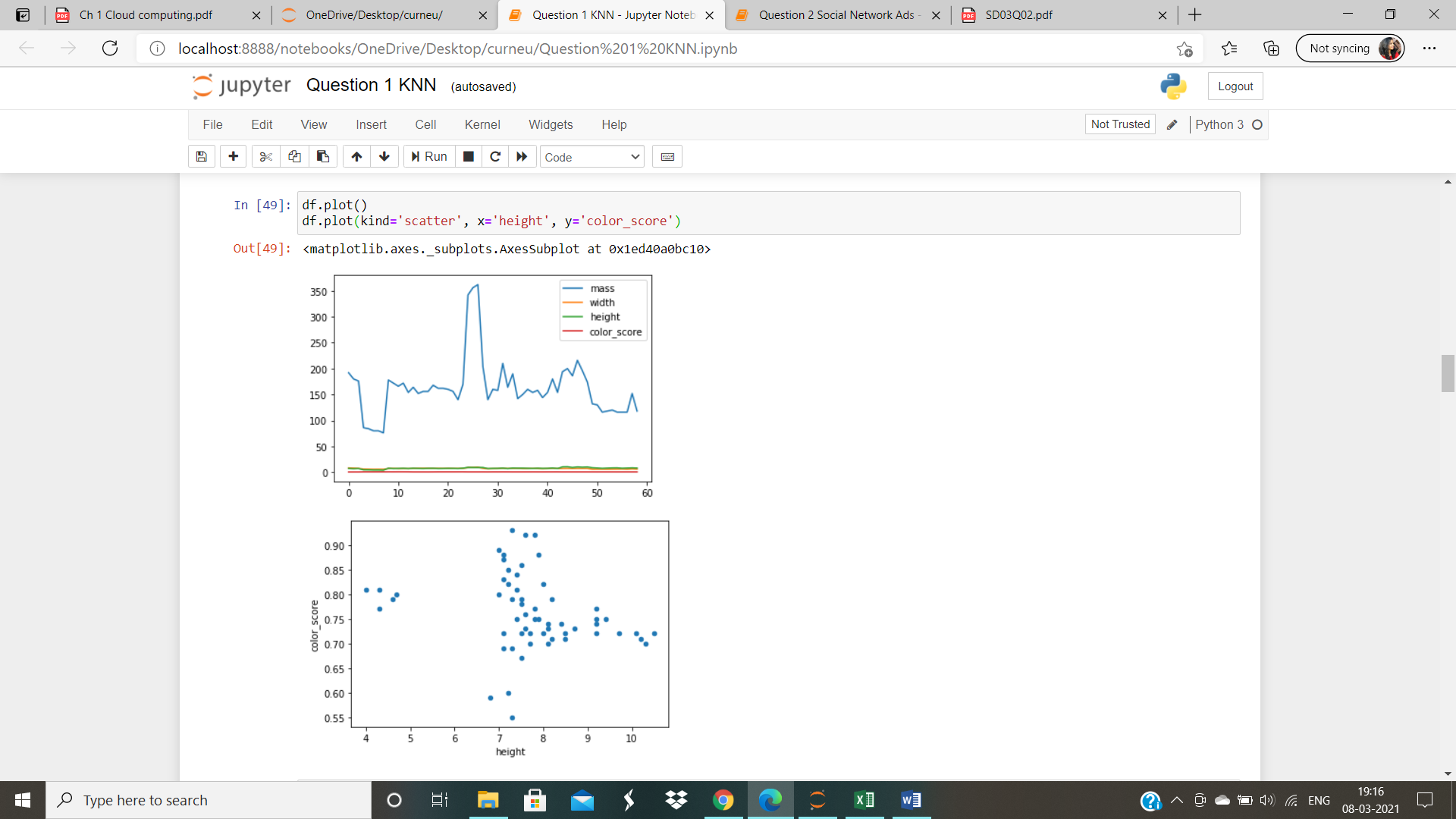
Cell 5: Scatter plot of height and width



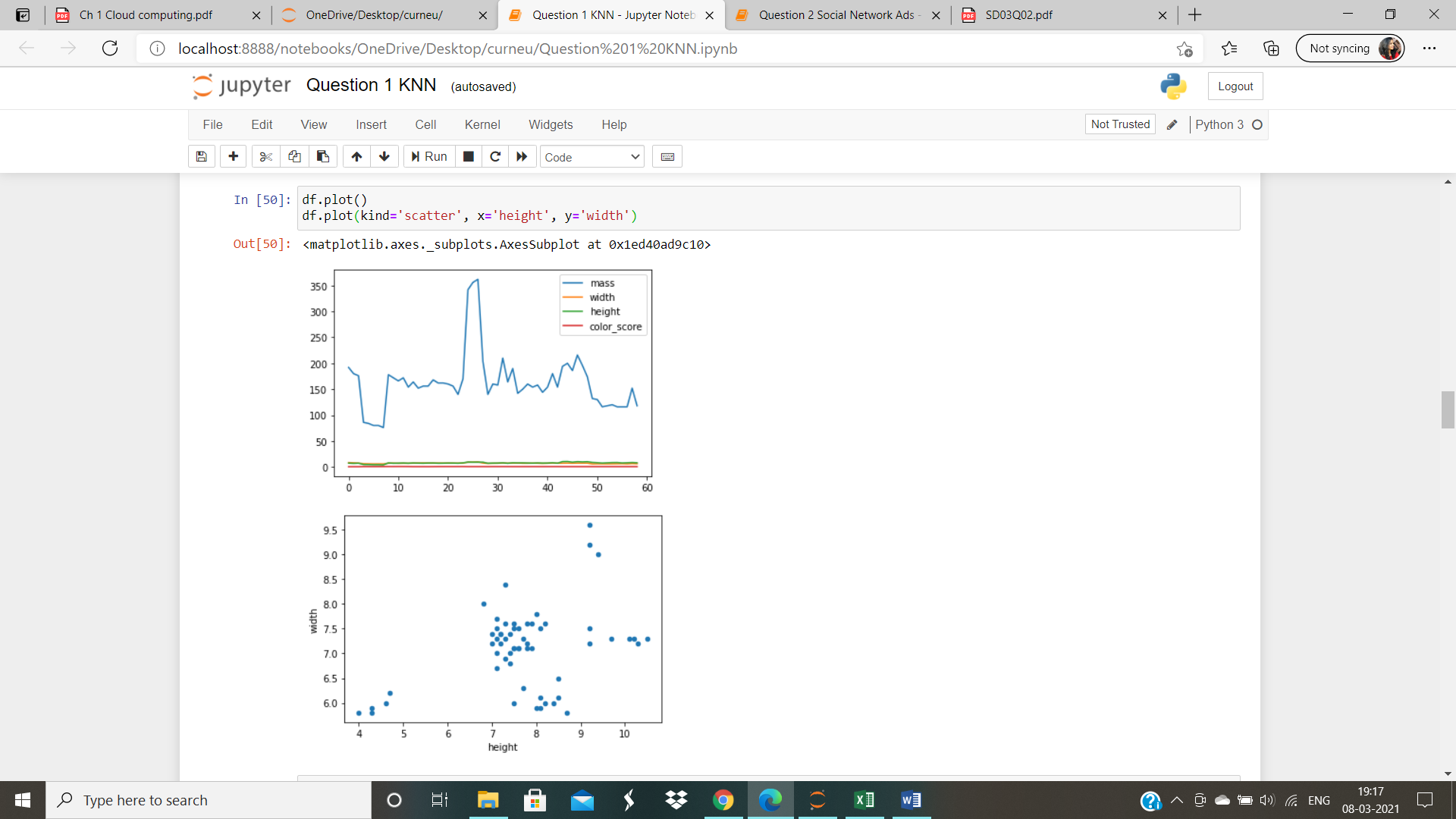
Cell 6: Scatter plot of mass and color\_score



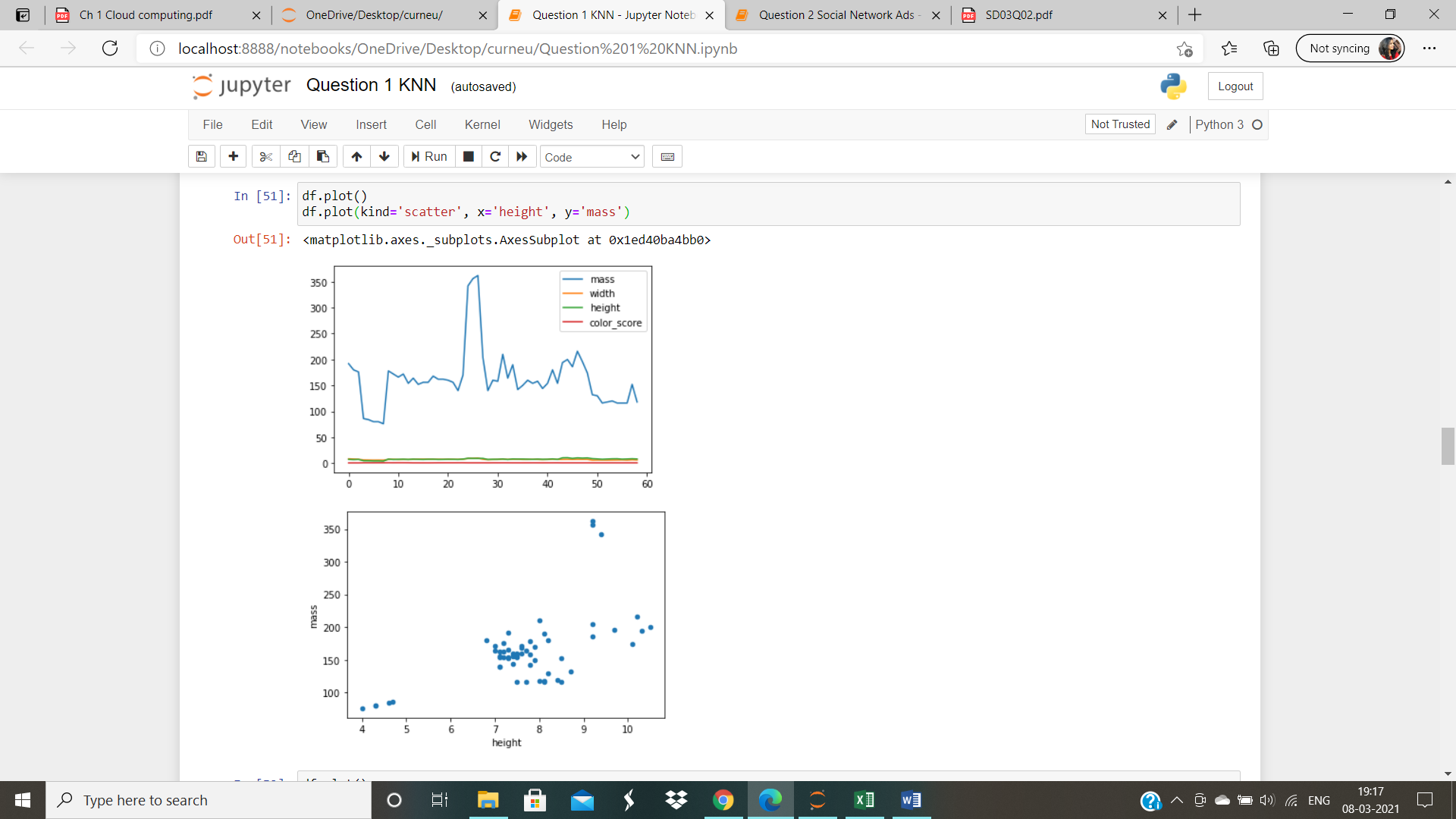
Cell 7: Scatter plot of height and color\_score



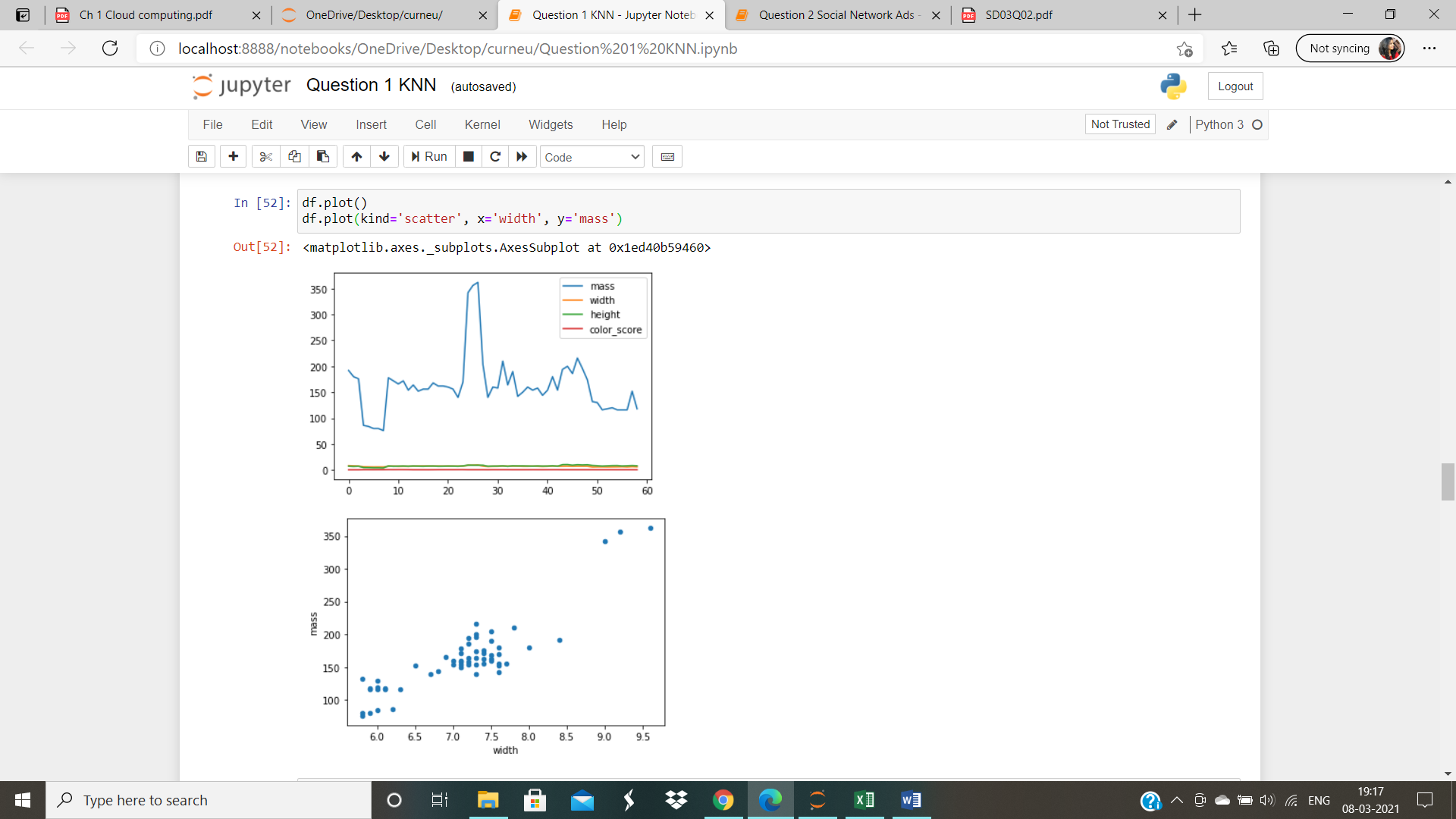
Cell 8: Scatter plot of height and width



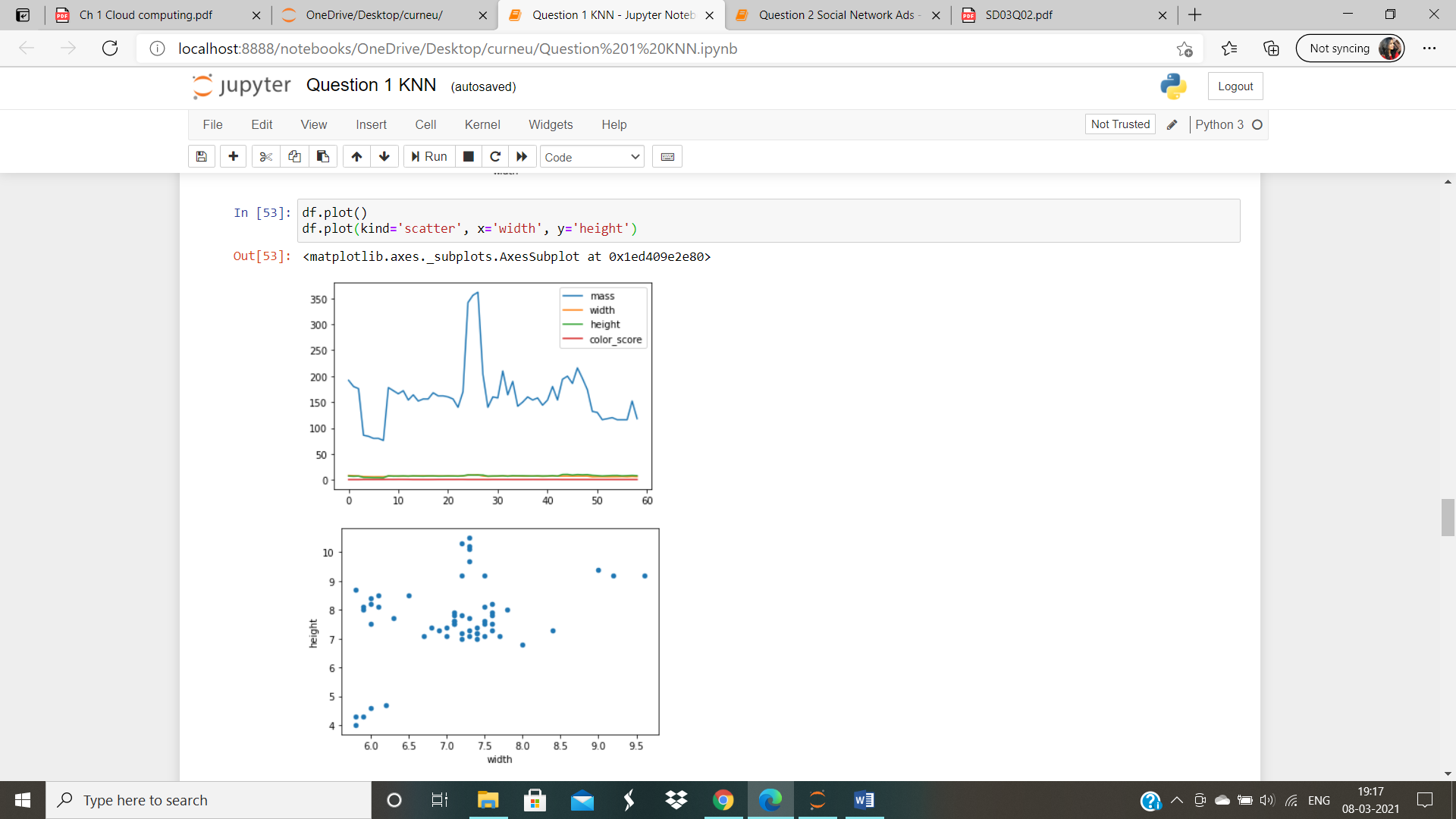
Cell 9: Scatter plot of height and mass



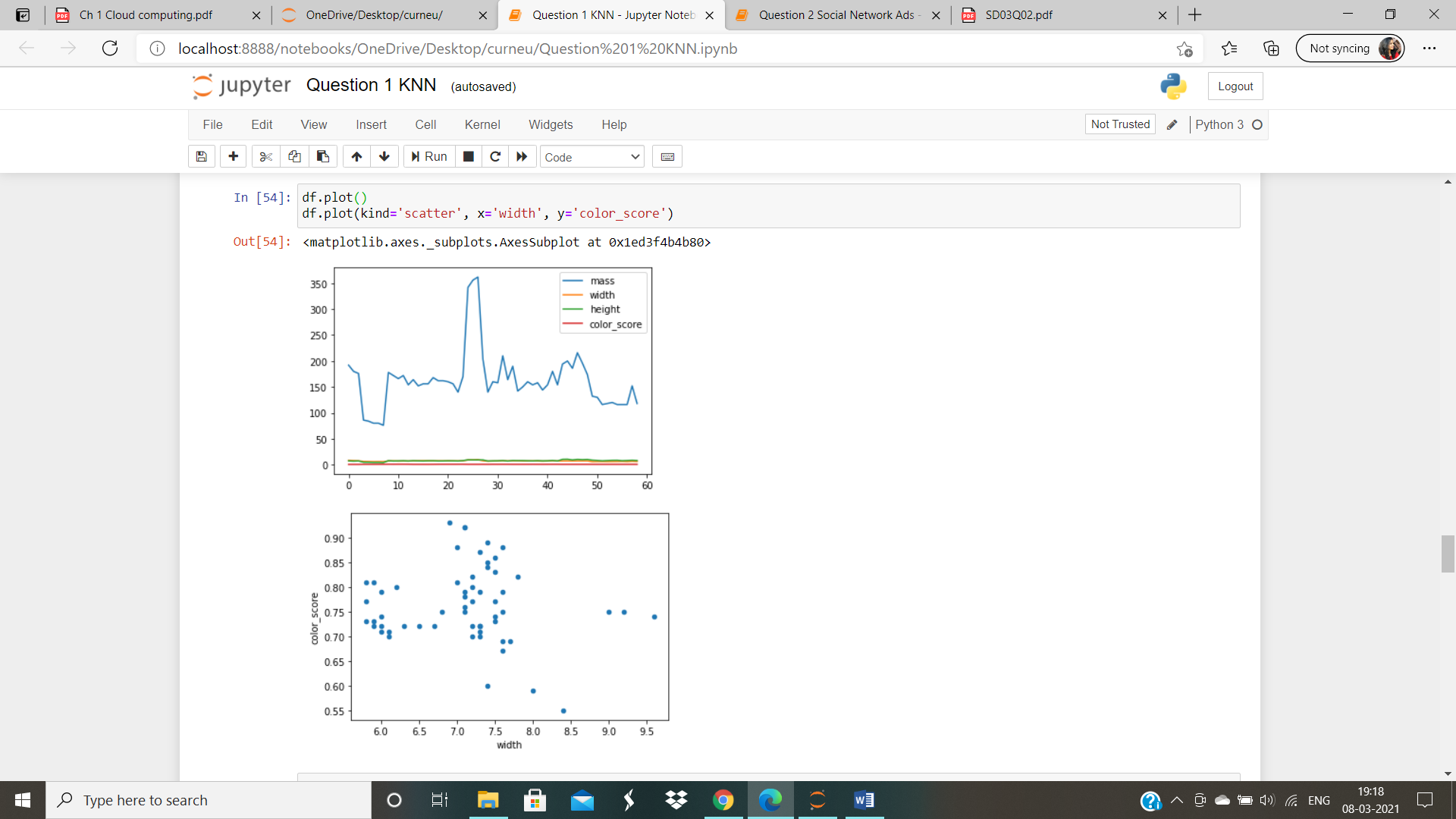
Cell 10 : Scatter plot of width and mass



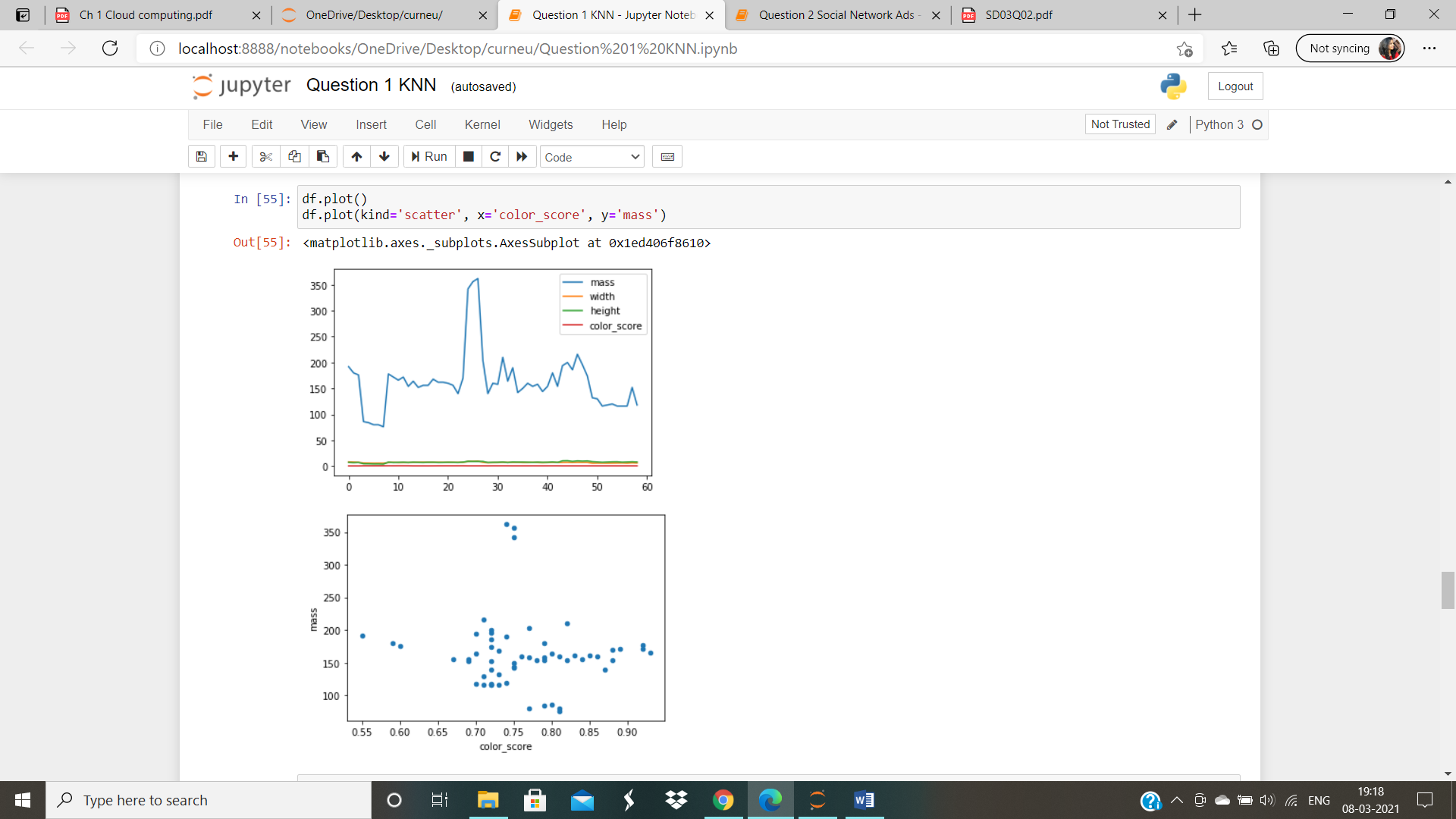
Cell 11: Scatter plot of width and height



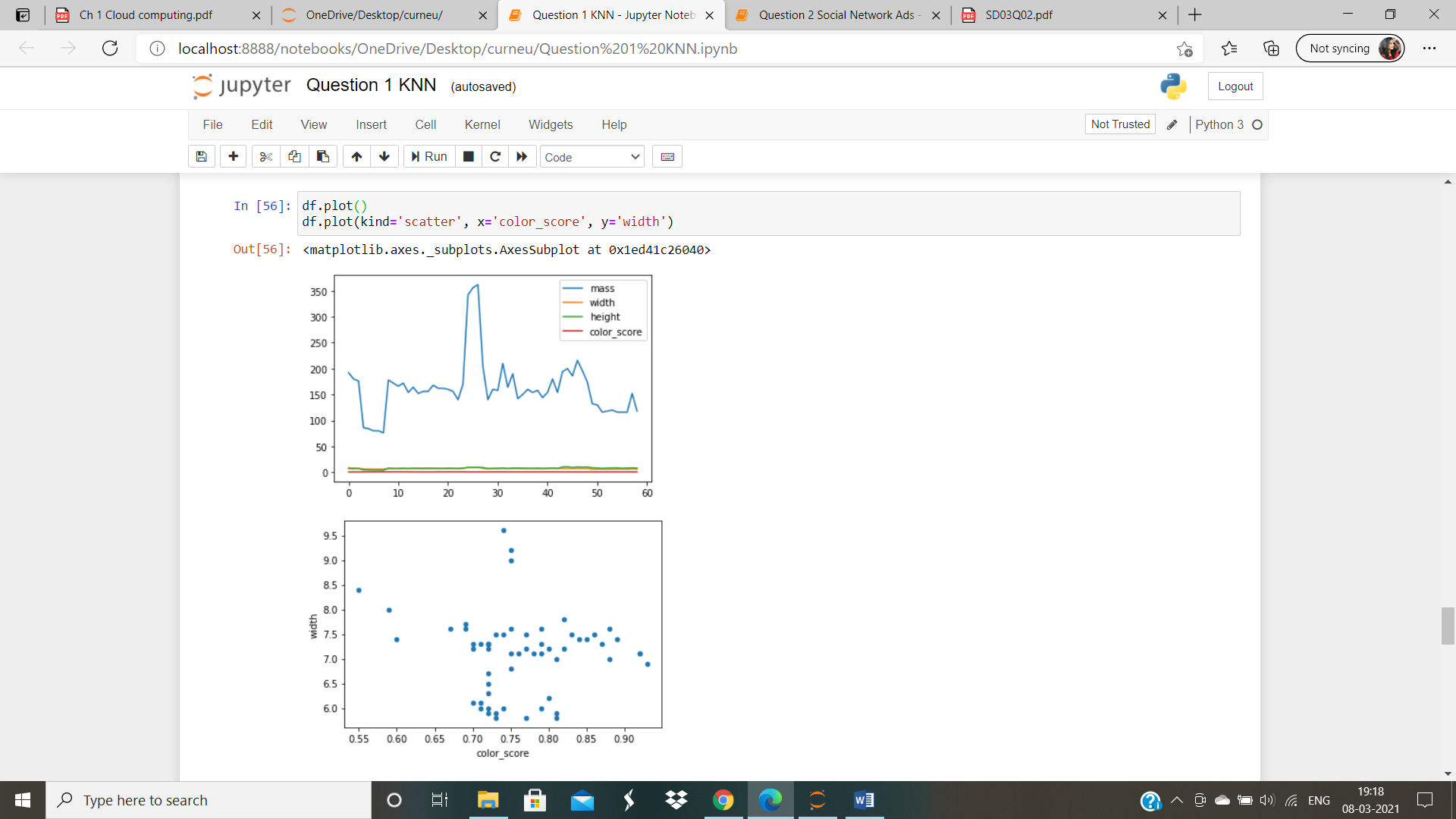
Cell 12: Scatter plot of width and color\_score

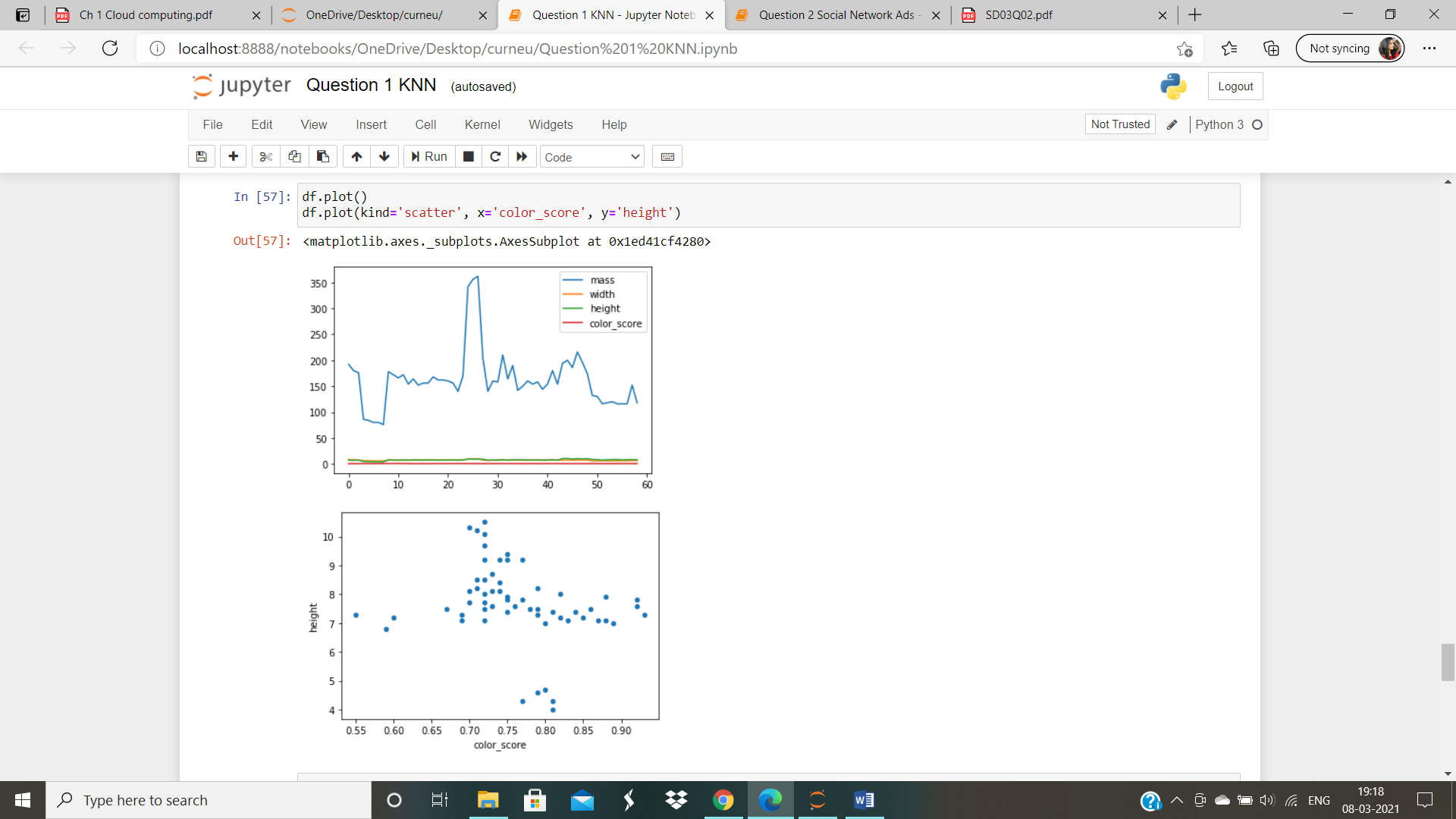


Cell 13: Scatter plot of color\_score and mass



Cell 14: Scatter plot of color\_score and width

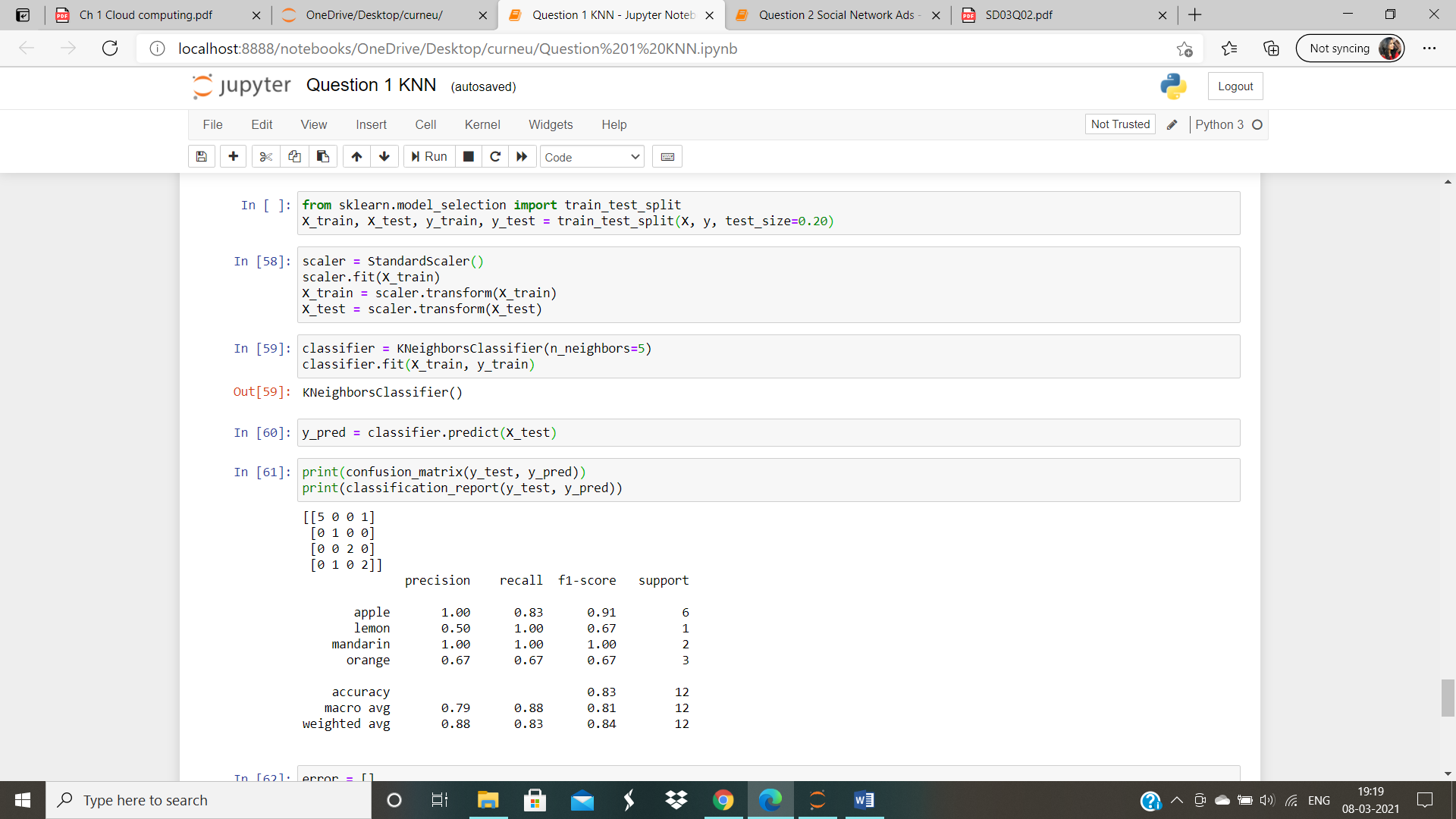


Cell 15: Scatter plot of color\_score and height 

Cell 16: Splitting the dataset

Cell 17:Using KNN classifier

Cell 18: Generating the confusion matrix and classification report



Cell 19: Calculating the error for K values

Cell 20: Plotting the Graph for the Mean Error and Error rate K value

