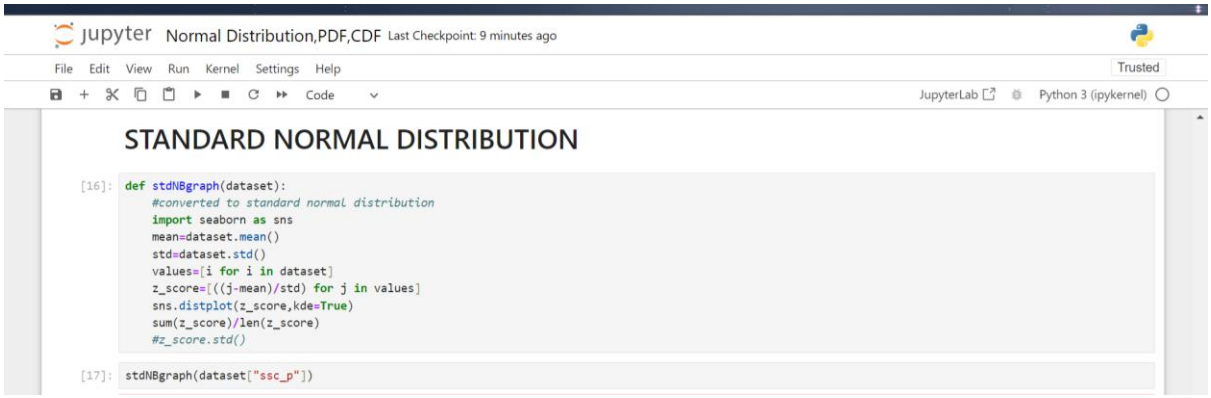
PROBABILITY DENSITY FUNCTION

1. Create a function for Probability density function
2. Import required libraries – matplotlib, scipy.stats & seaborn
3. Using distplot function, set colours for the required curves as blue and green respectively.
4. Using axvline function, draw vertical lines for start range and end range.
5. Generate a sample as dataset
6. Calculate mean and standard deviation for the required column from the dataset.
7. Print those mean and standard deviation values.
8. Using norm function, calculate the normal distribution with calculated mean and standard deviation.
9. Generate a list of values from start range to end range.
10. Finding the pdf value from start range to end range.
11. Sum the total pdf values and print it.
12. Call the function for the required range of start and end.

STANDARD NORMAL DISTRIBUTION



1. Create a function named stdNBgraph.
2. Import required libraries – seaborn
3. Calculate mean and standard deviation for the required column in the dataset.
4. Generate a list of values from the specific column in the dataset.
5. Calculate the z-score value using (X-Mean)/(Standard Deviation) formula.
6. Using distplot function, a graph is plotted.
7. Now z_score is calculated.
8. Resultant graph will be within defined set of values in the x-axis.
9. Curve shape remains the same.
10. X-axis range will be converted to defined det of values.