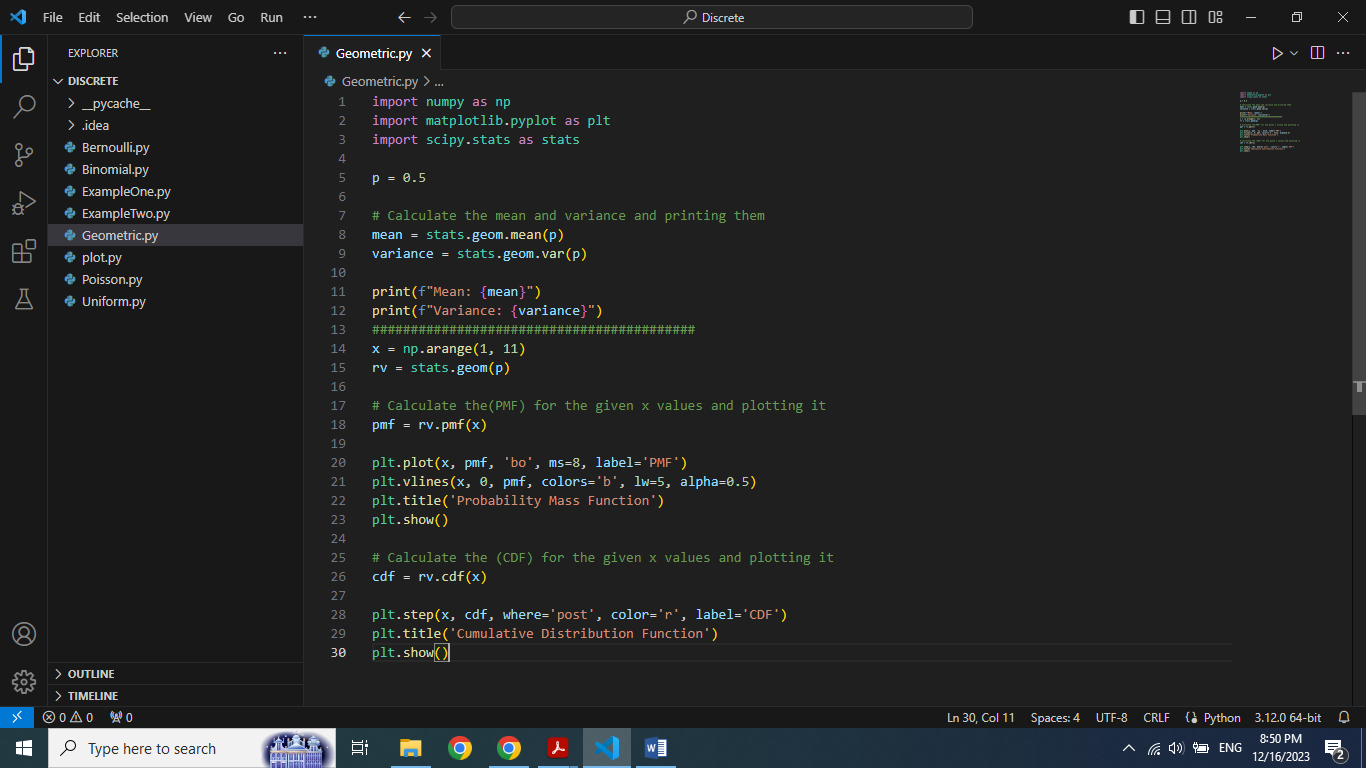
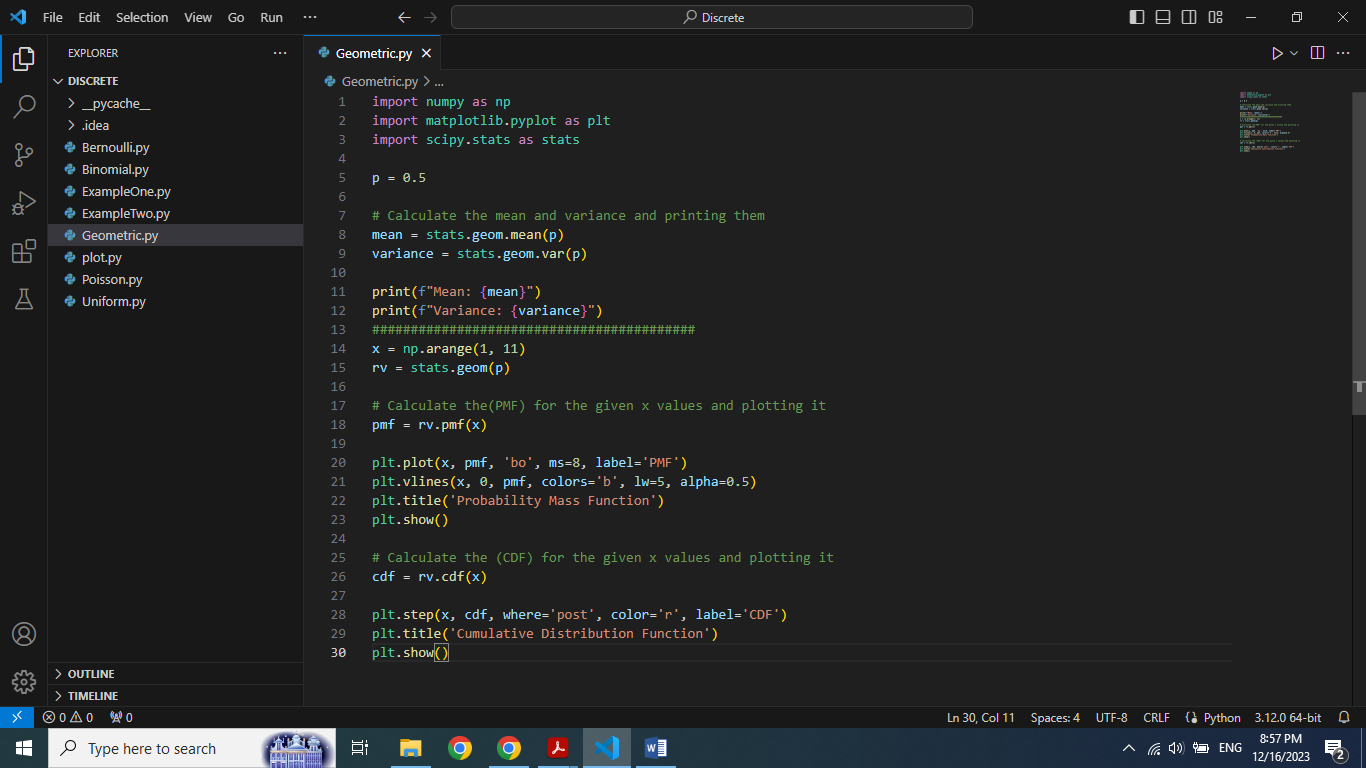
**First: Importing needed libiraries:**



Here "numpy" is imported as 'np' for numerical operations, "matplotlib.pyplot" as 'plt' for plotting functions and "scipy.stats" as 'stats' for statistical functions

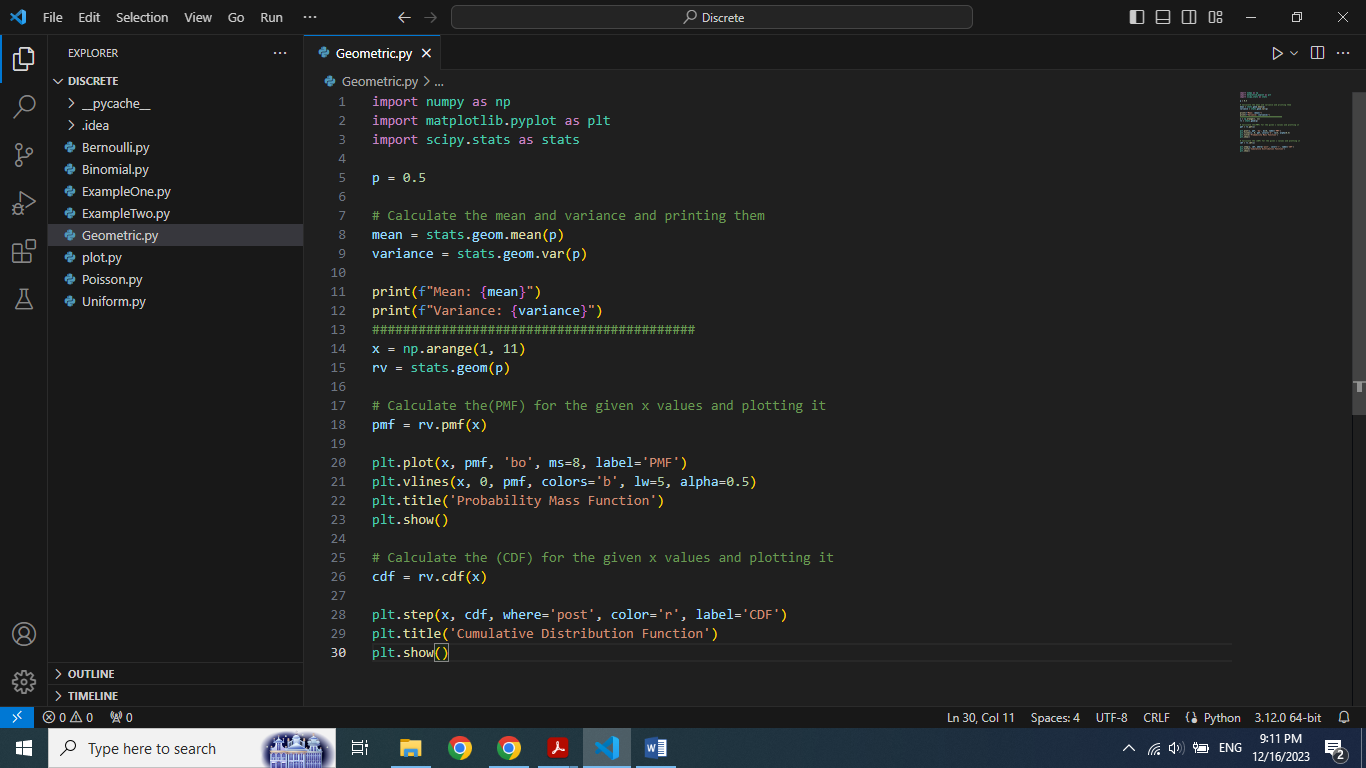
**Second: Defining the probability and calculating Mean and Variance**



Here "p" has 0.5 value that represent probability of success in geometric distribution

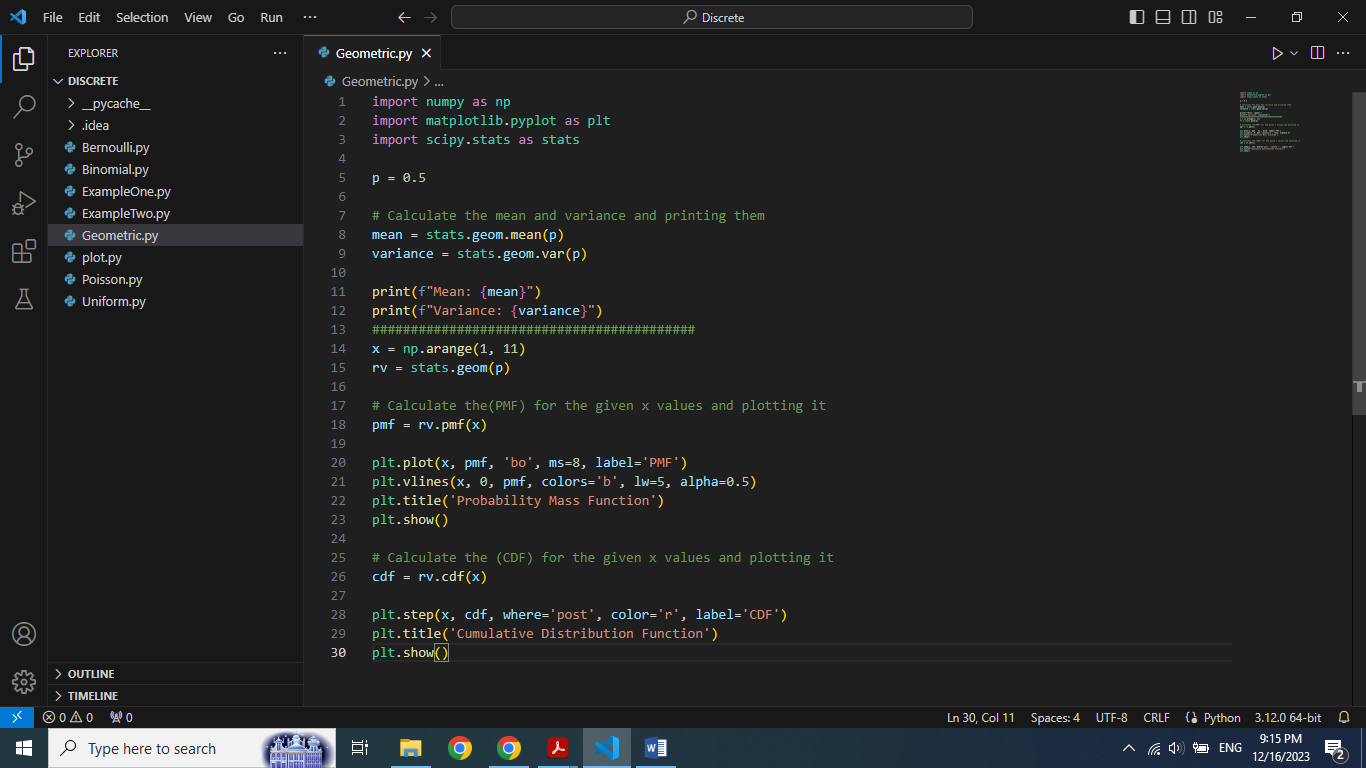
Moreover, using "stats.geom.mean" and "stats.geom.var" from "scipy" libirary to calculate Mean and Variance for "p"

**Third: Creating values for x and Geometric Distribution**

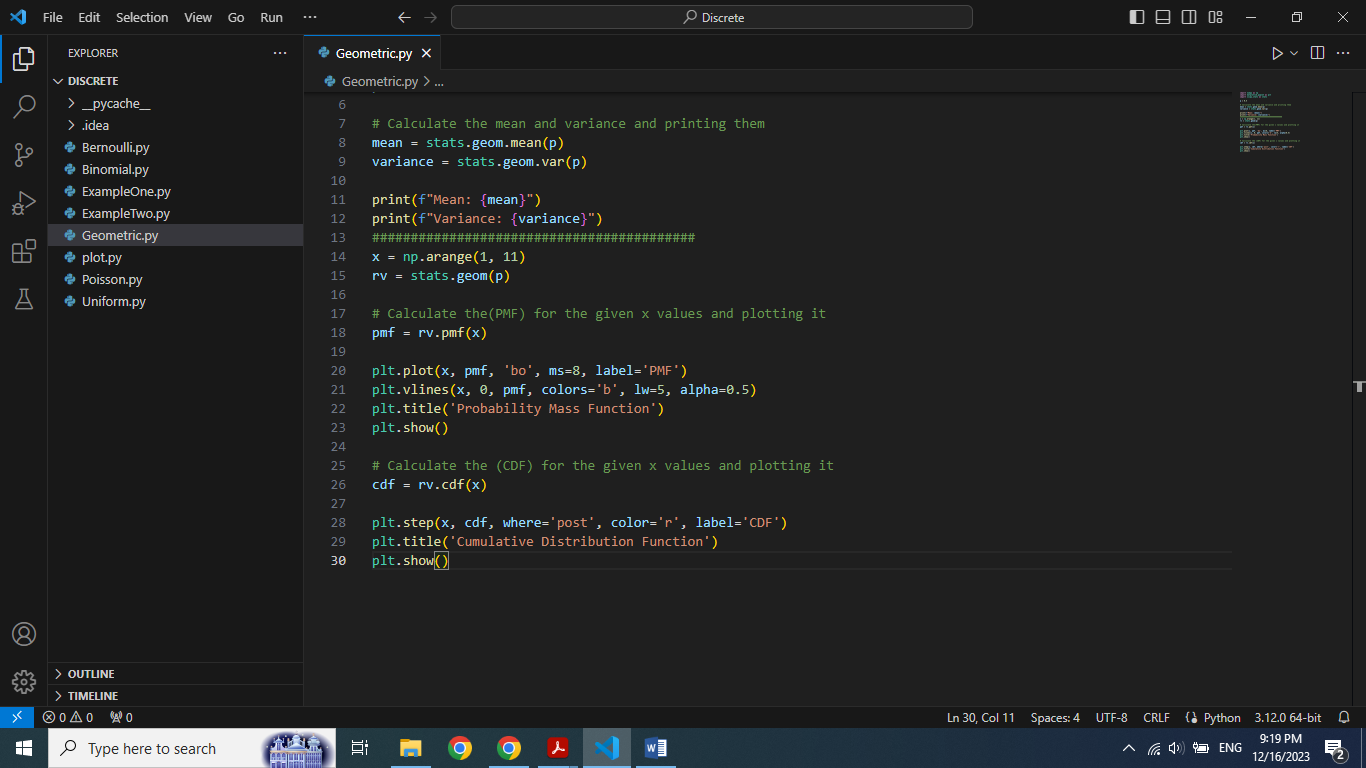


Here "x" is an array from 1 to 10 and "rv" is a Geometric Distribution for probability 'p'.

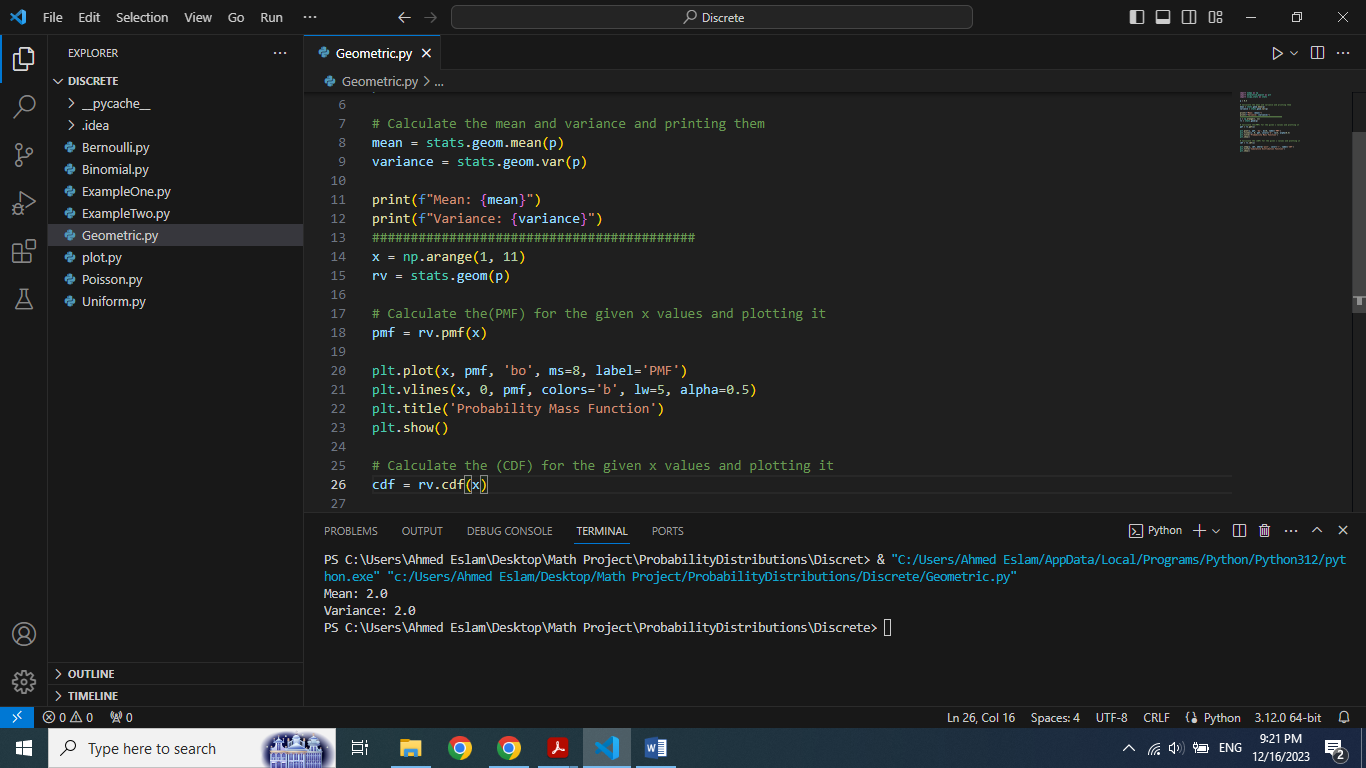
**Fourth: Calculating Probability mass function for "x" and plotting it**

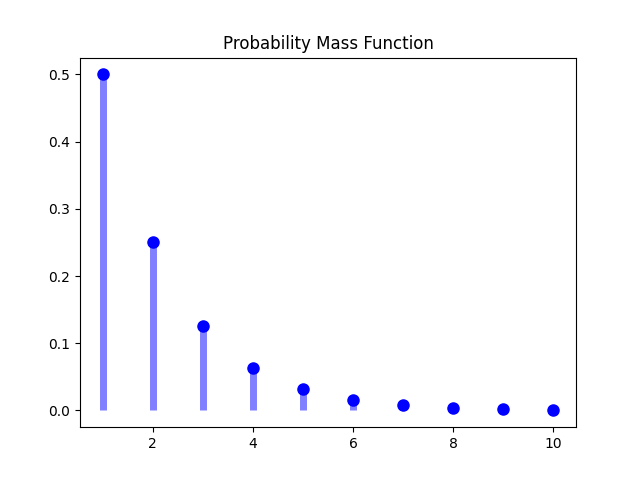


**Fifth: Calculating cummulative density function for "x" and plotting it**



**Output:**



 Mean and Variance

