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**Function coded: makeVolSurface.m, getVol.m**

**Testing scripts: testVolsurf.m, testPlotVolcurveKT3D.m, testPlotVarcurveT2D**

This was a very good exposures for me to get familiar to MATLAB, as I had been familiar with Python and R but not MATLAB. During coding, the biggest challenge was to consider the implementation of matrix operations in Matlab and the way to leverage the feature of matrix operations to accelerate the computation. Finally I transformed the implementations of my function to matrix form as much as I can to benefit from the matrix operations. The second challenge (also achievement) was to learning how to plot 3D figures in MATLAB. This was a testing step to check whether the volatility surface generated by the functions was smooth or not. But I realized that the plotting functions in Matlab are much powerful than those of both Python and R. I can easily generate a 3D surface and then rotate the plotting at will. This is a very fantastic feature of Matlab plotting and extremely useful when we plot a 3D figures. The third challenge was the code integration step. There were some bugs at the first time we intergrade our codes, so I discussed with my team members and tried to looked into their functions together. So at last I understood most of the project, rather than just caring for my own part.