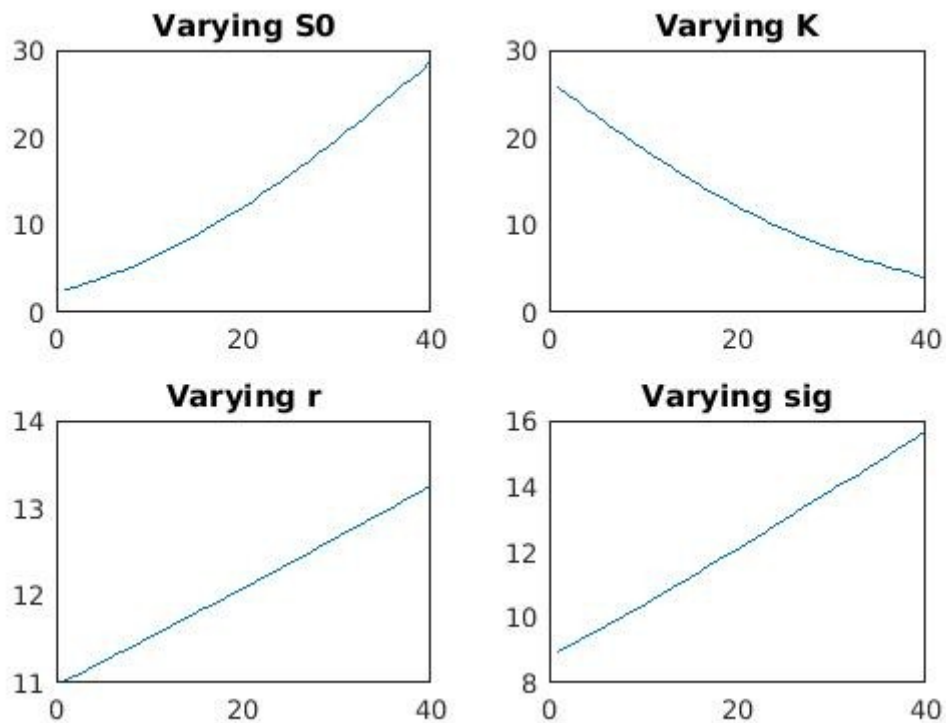


Name: Nikhil.K
Roll No: 170123025

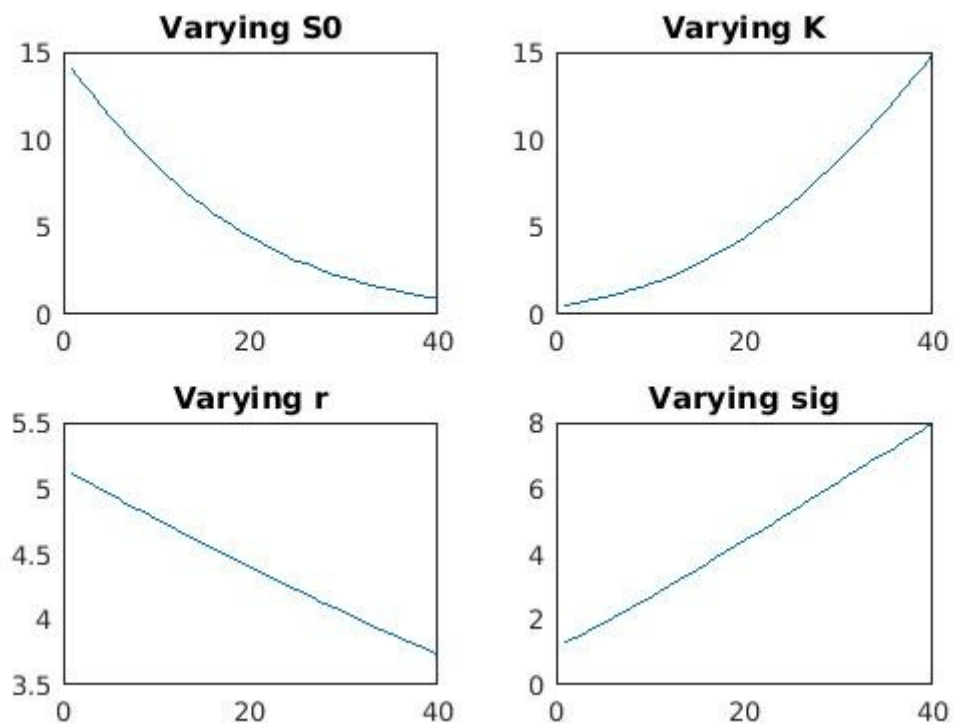
Question 01

Plots of the initial prices of both call and put options (for both the above sets of u and d) by varying one of the parameters at a time (as given below) while keeping the others fixed are

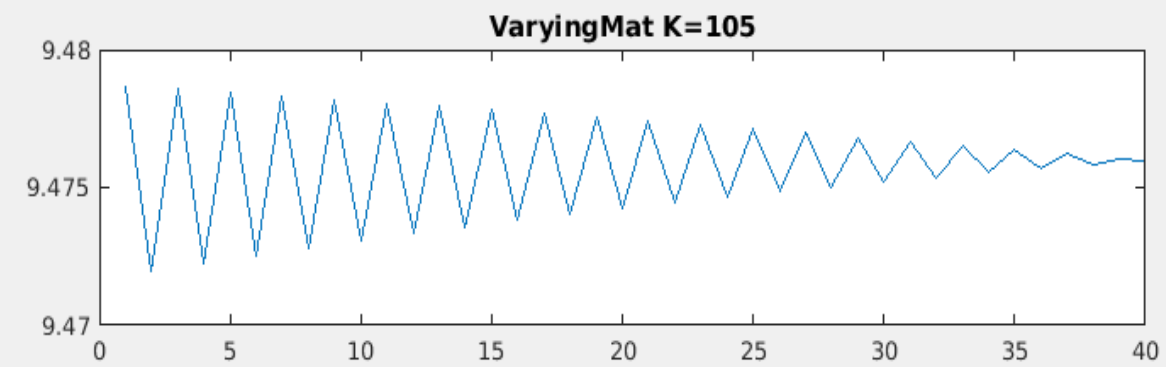
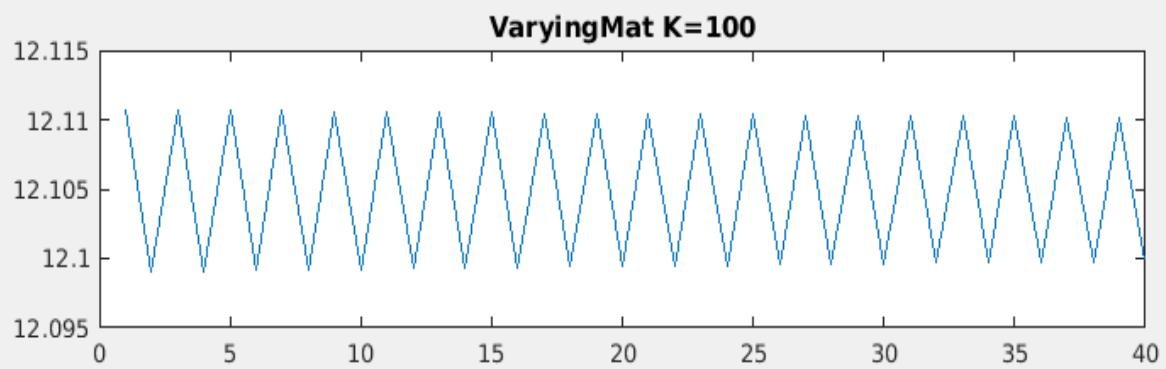
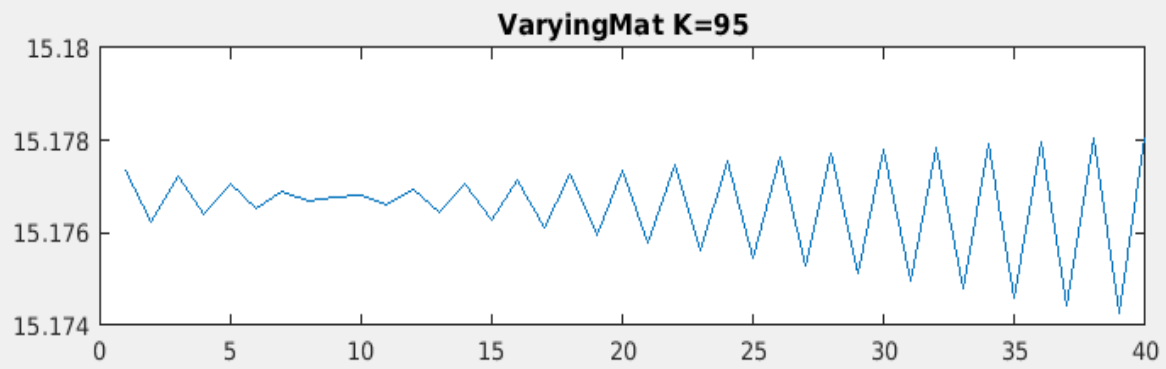
Set1: Call Option



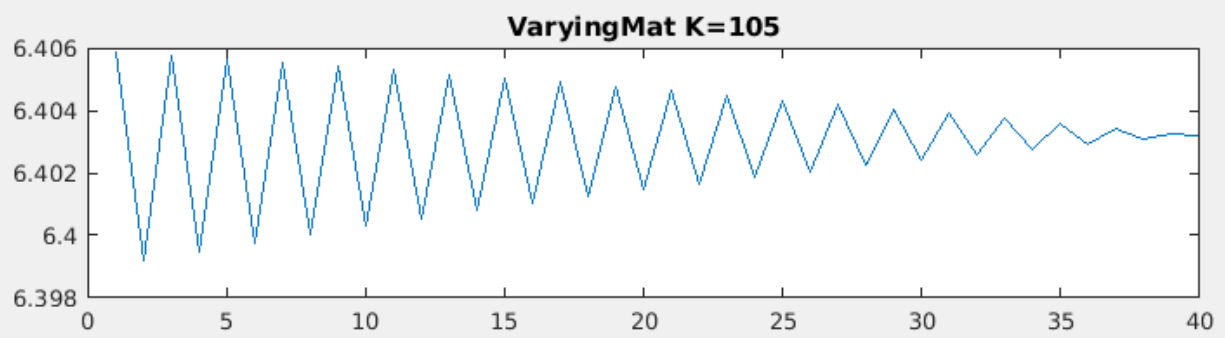
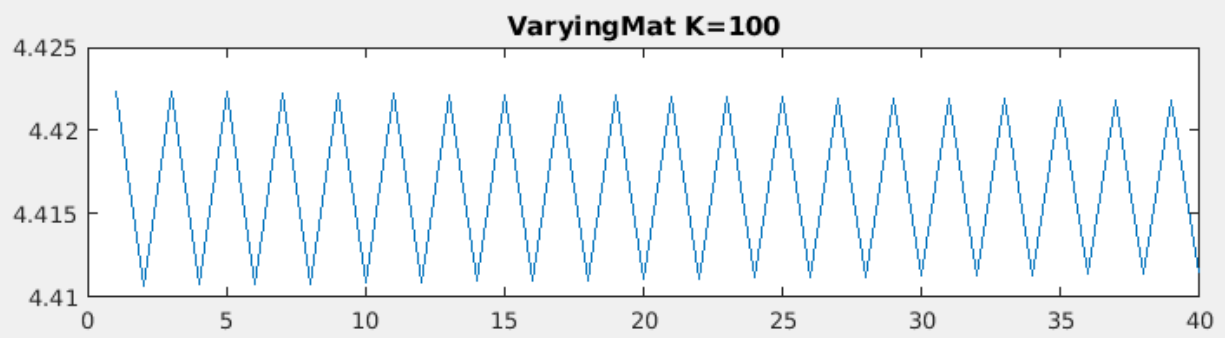
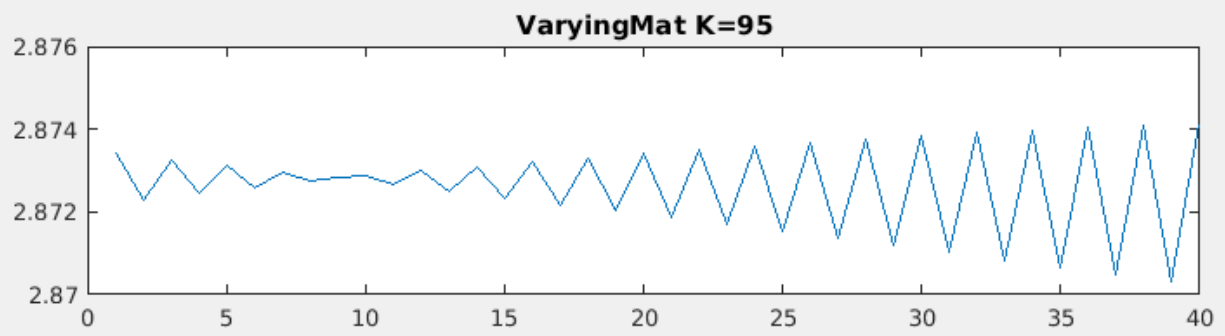
Set1: Put Option



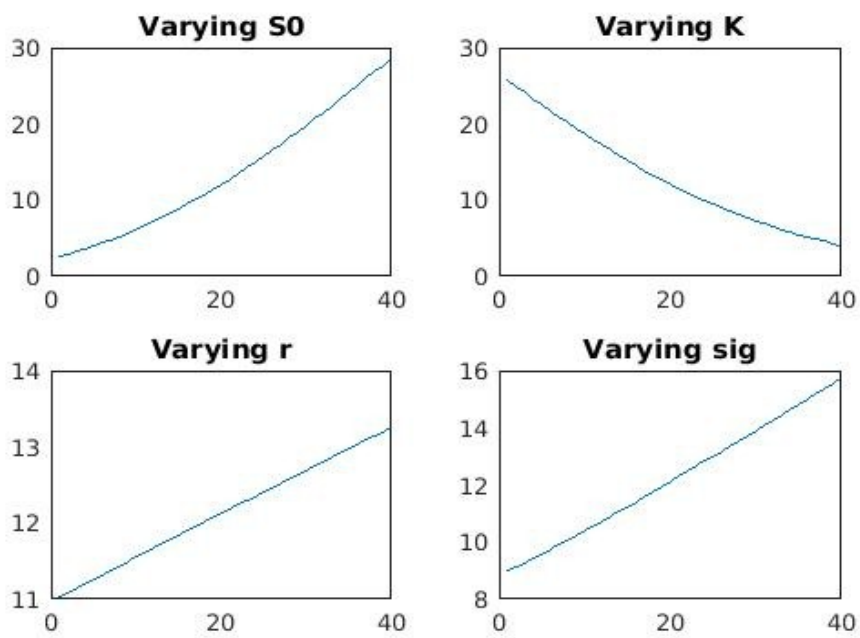
Set1: Call Option



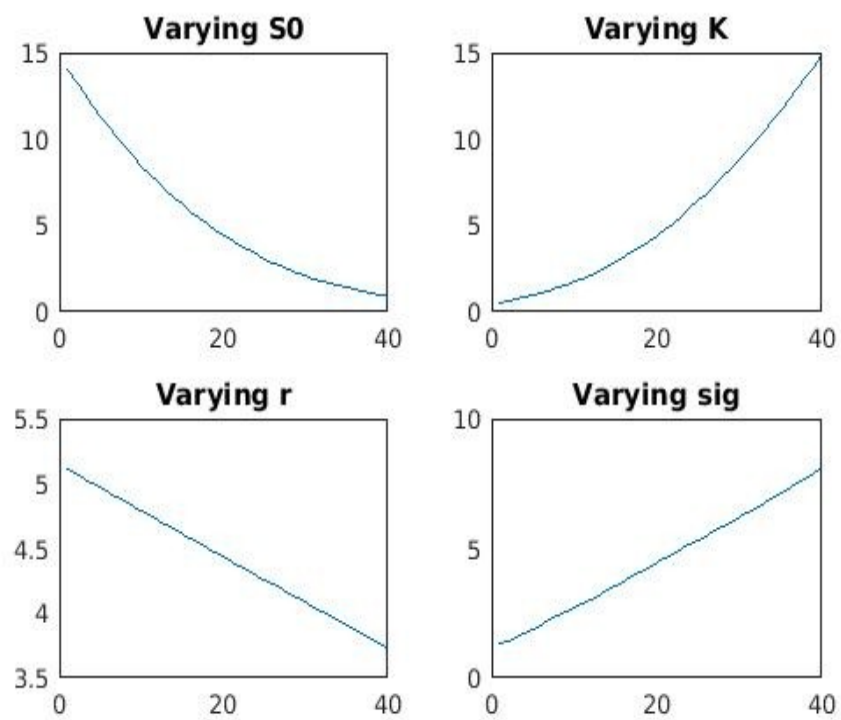
Set1: Put Option



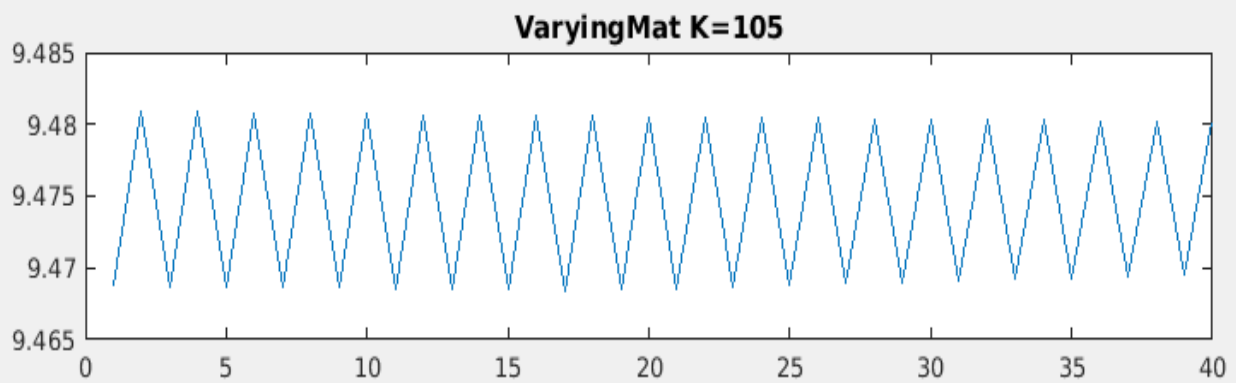
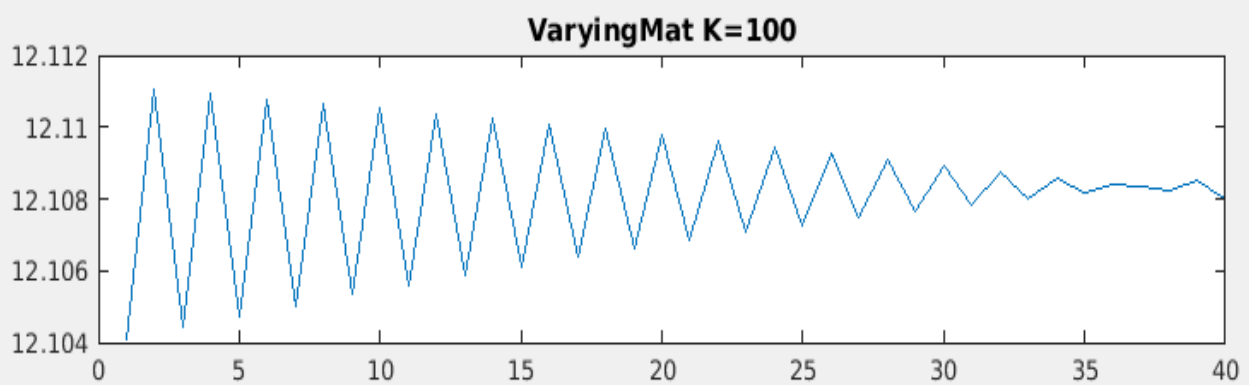
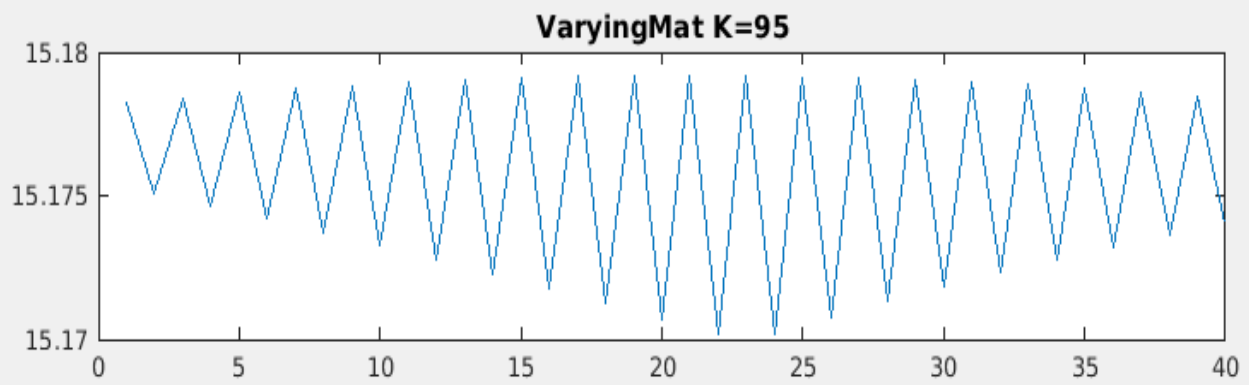
Set2: Call Option



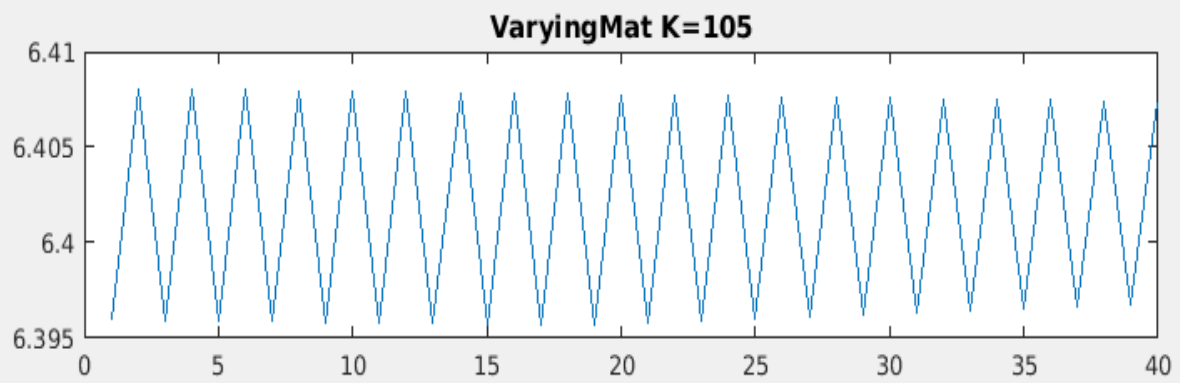
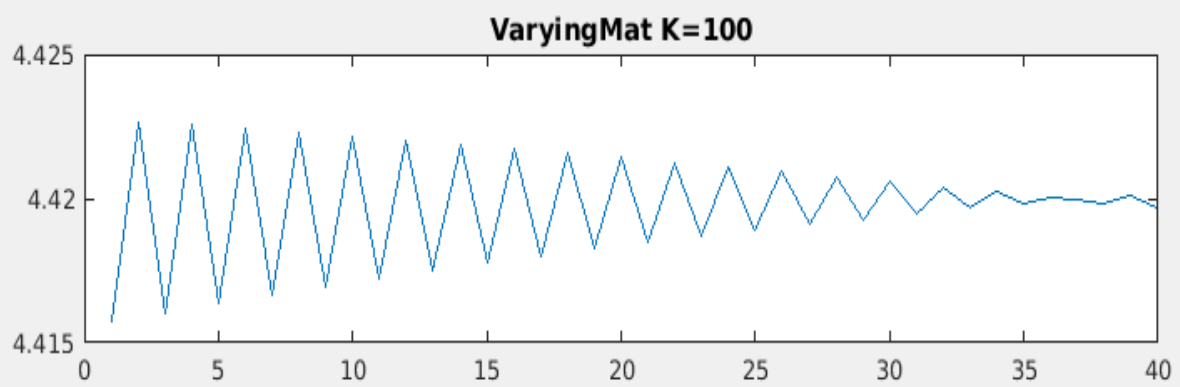
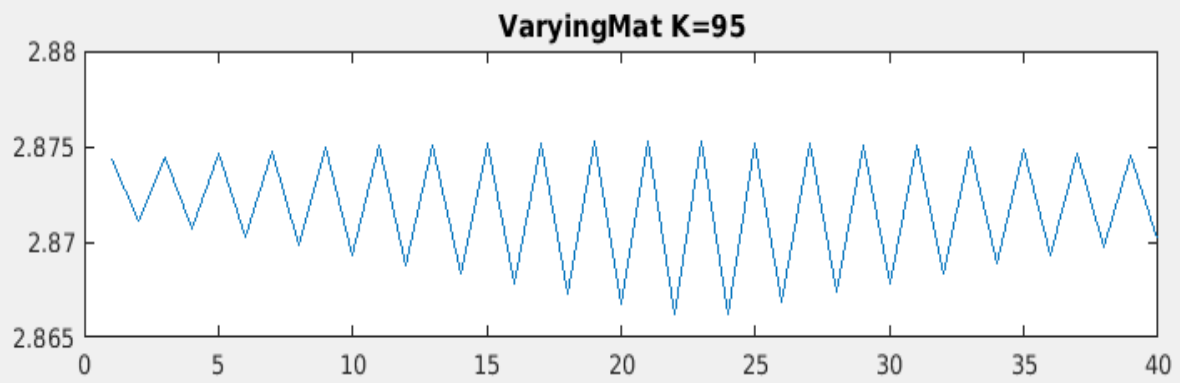
Set2: Put Option



Set2: Call Option



Set2: Put Option

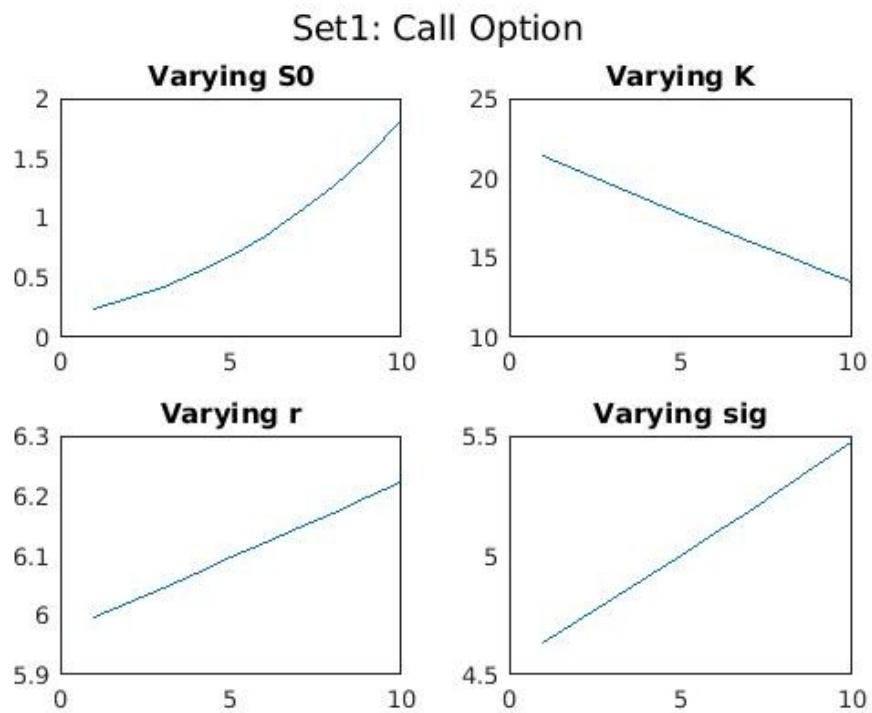


Question 02

Consider the asian look-back option, with parameters

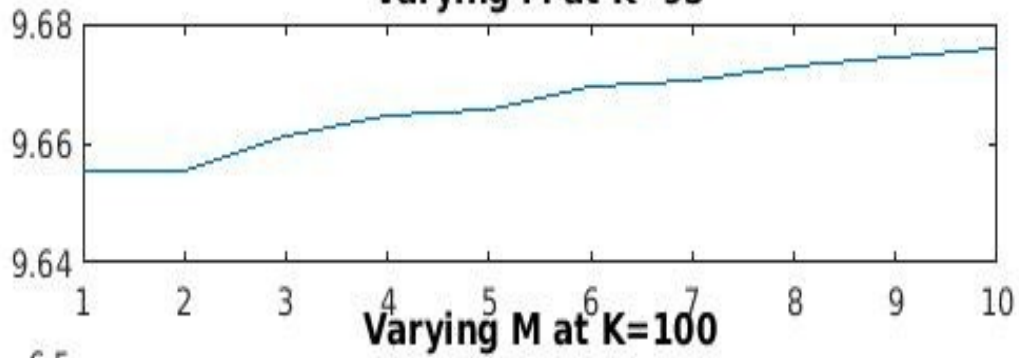
$S_0 = 100$; $K = 100$; $T = 1$; $M = 10$; $r = 0.08$; $\sigma = 0.20$;

The sensitivity plots are given by

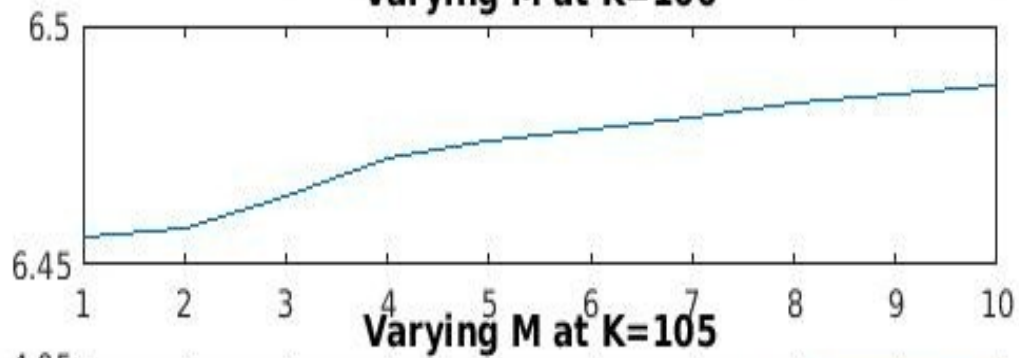


Set1: Call Option

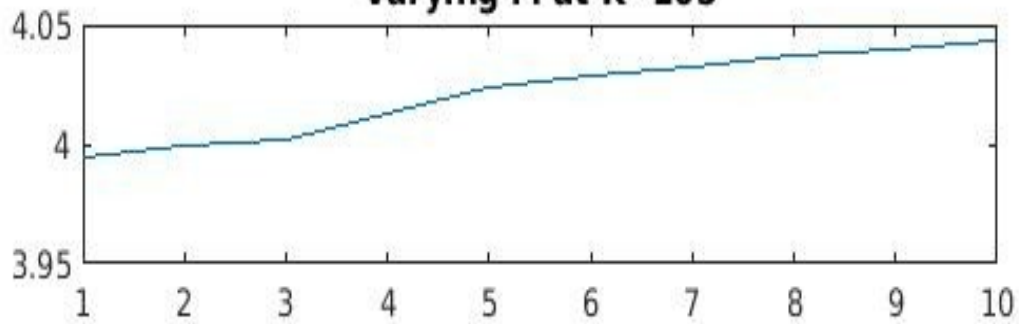
Varying M at K=95



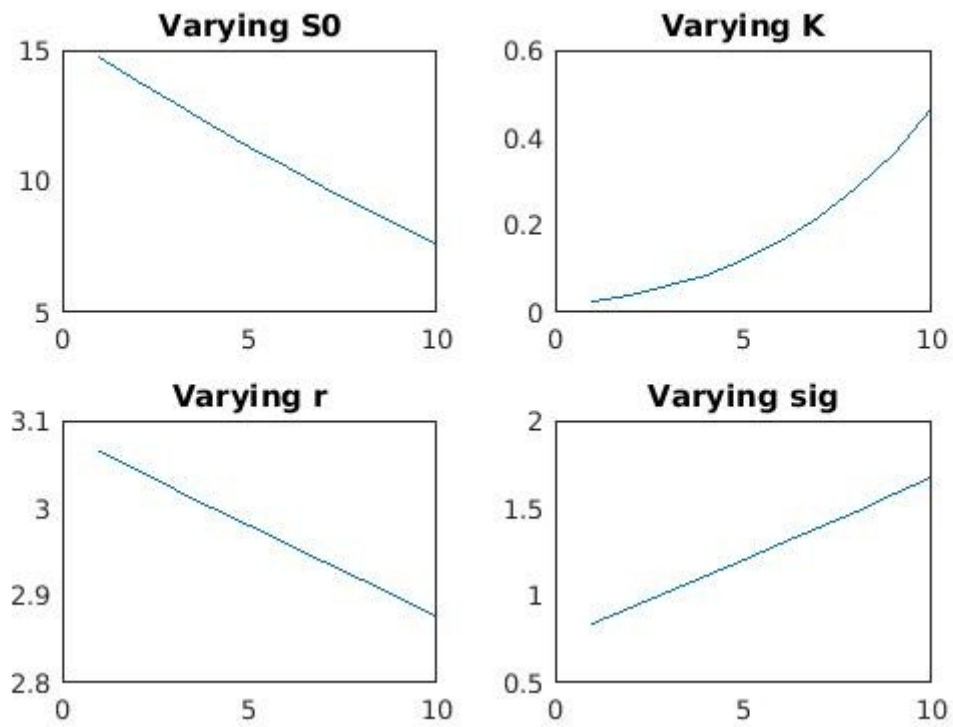
Varying M at K=100



Varying M at K=105



Set1: Put Option



Set1: Put Option

