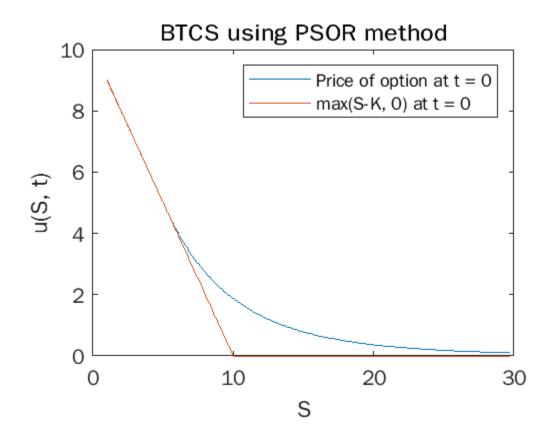
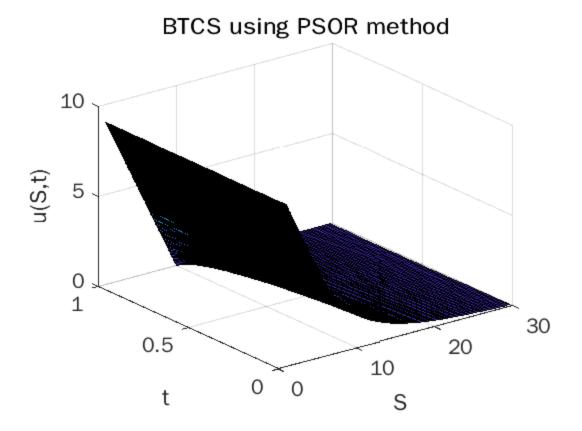
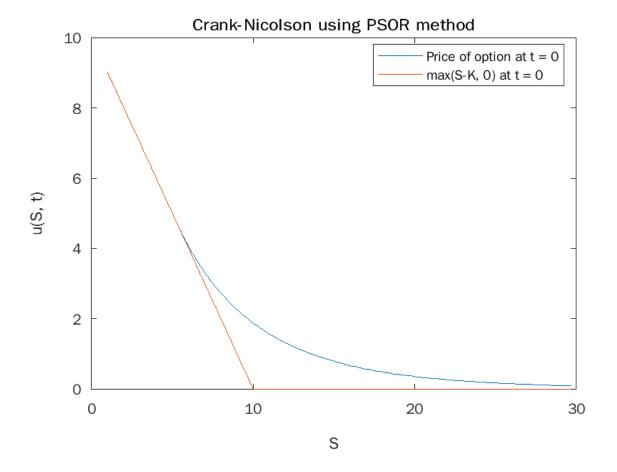
Computational Finance MA473 Lab 05 06

Name: Naman Goyal Roll No: 180123029

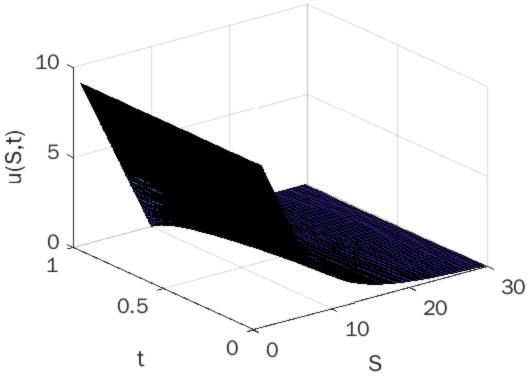
Ques.1 **Pricing American Put using BTCS and Crank Nicolson with PSOR Method**

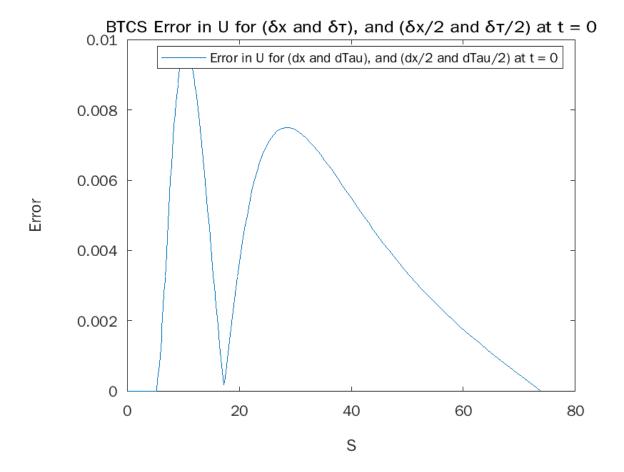


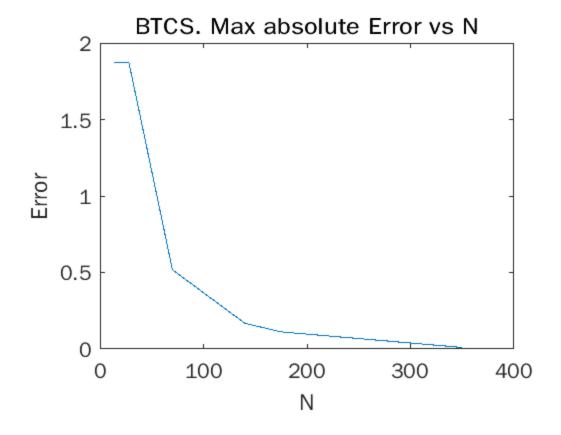




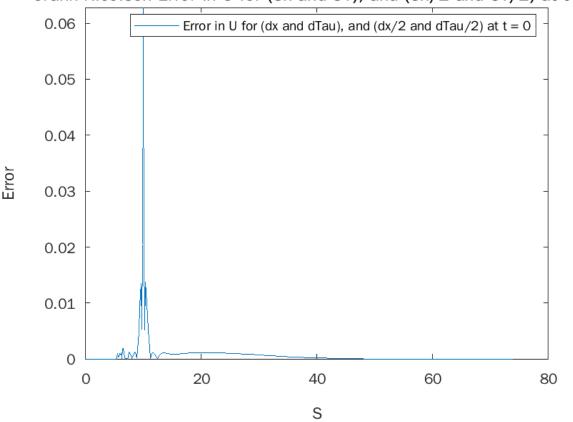
Crank-Nicolson using PSOR method

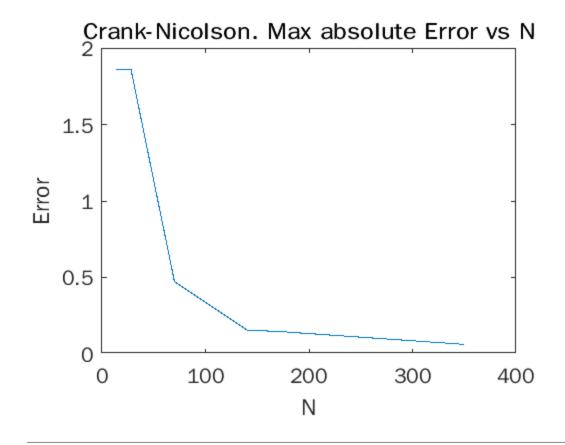




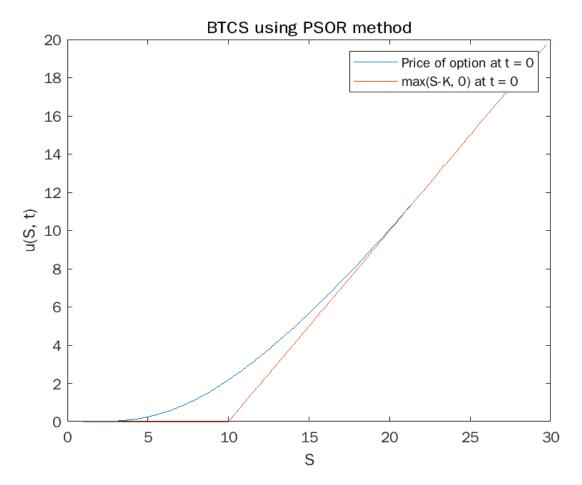


Crank-Nicolson Error in U for (δx and $\delta \tau$), and ($\delta x/2$ and $\delta \tau/2$) at t = 0

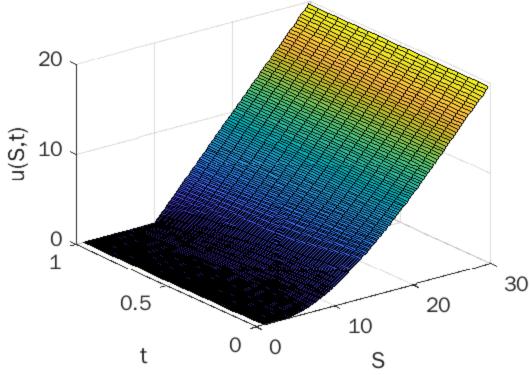


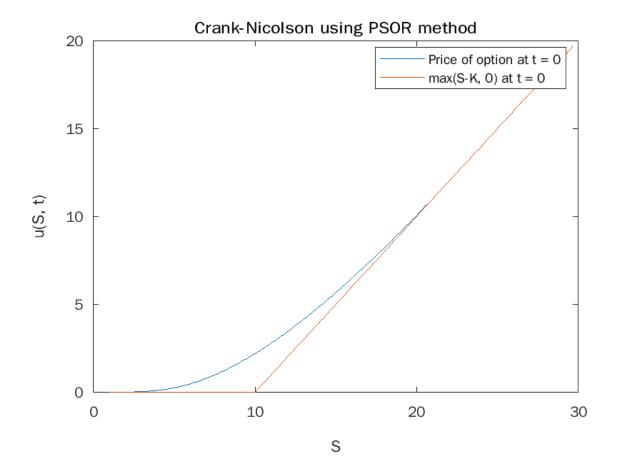


Ques.2
Pricing American Call using BTCS and Crank Nicolson with PSOR Method

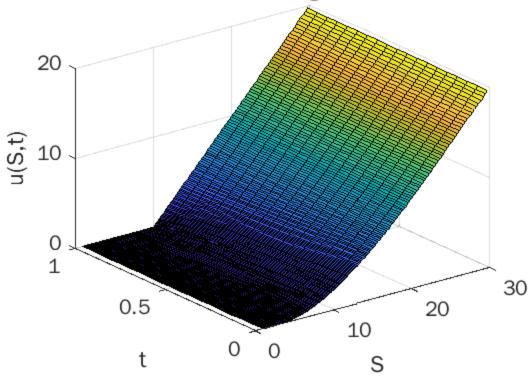


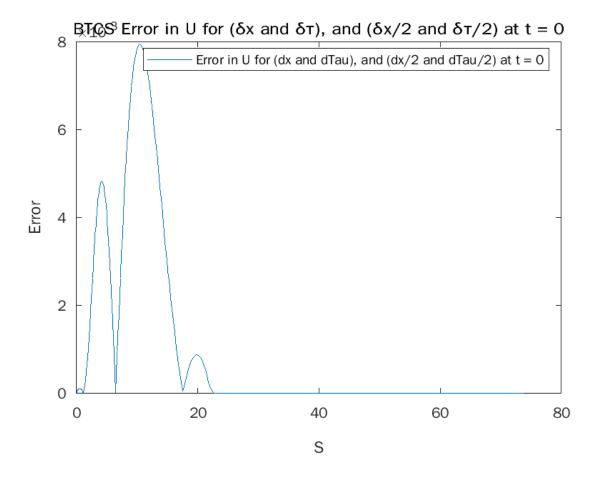


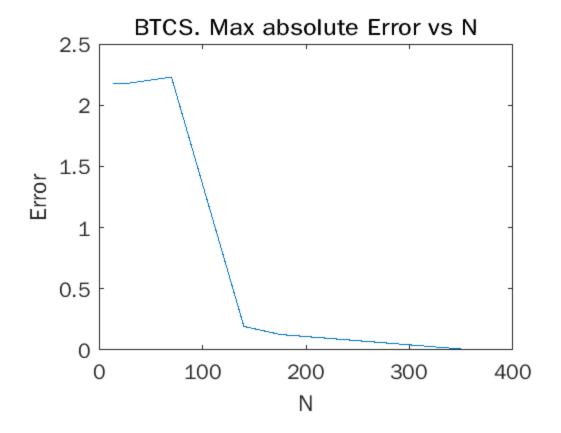




Crank-Nicolson using PSOR method







Crank-Nicolson Error in U for (δx and $\delta \tau$), and ($\delta x/2$ and $\delta \tau/2$) at t = 0

