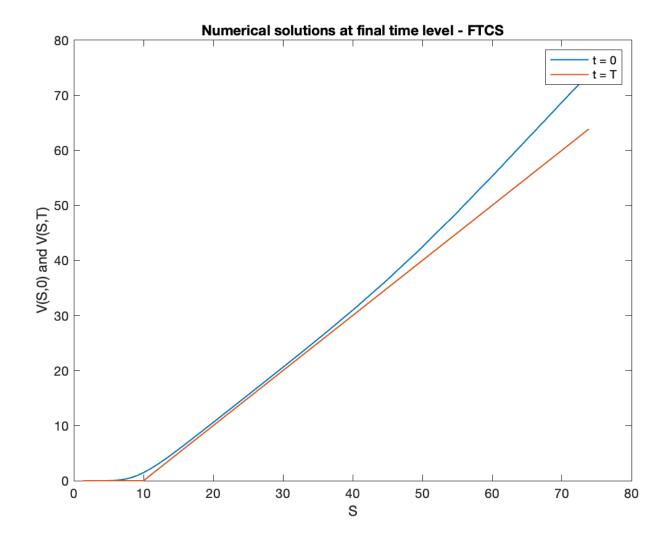
Lab - 02

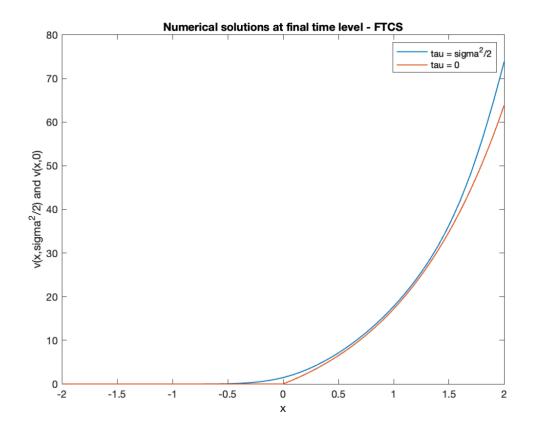
Dipanshu Goyal 210123083

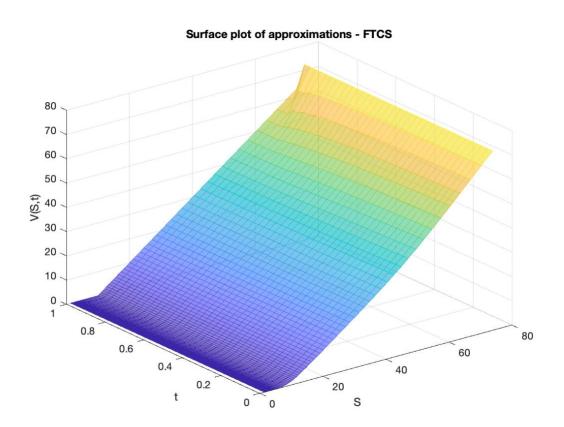
Question-1

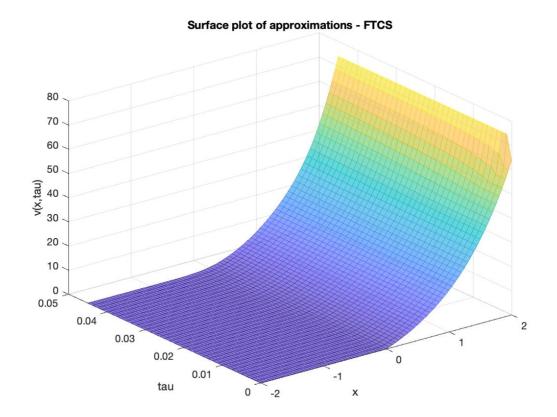
The solution of the given PDE by different approximations are plotted below: -

1. FTCS

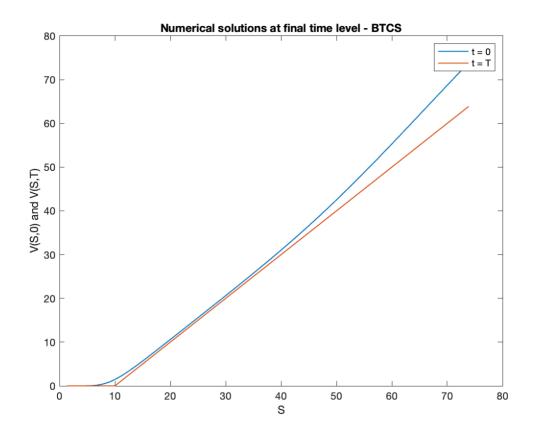


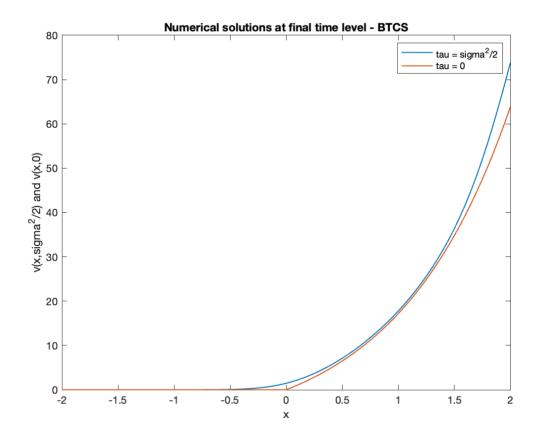


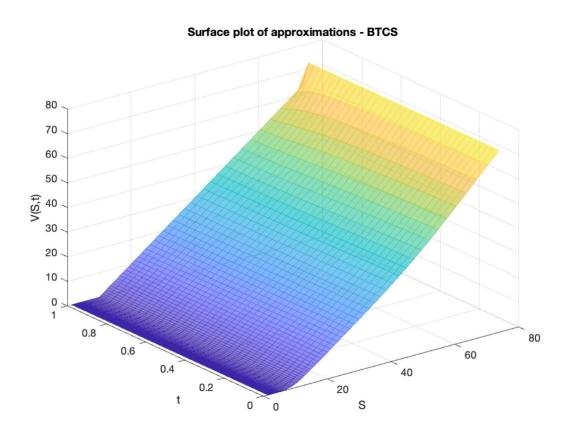


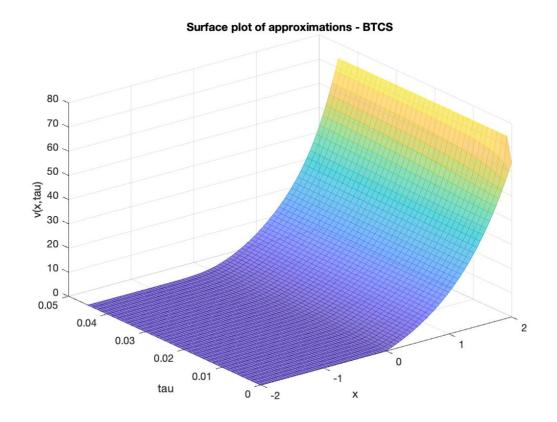


2. BTCS









3. Crank-Nicolson

