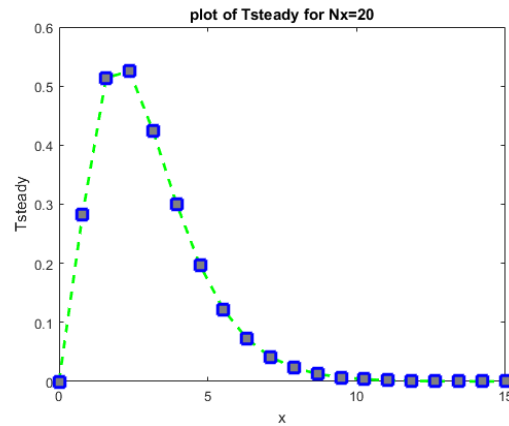
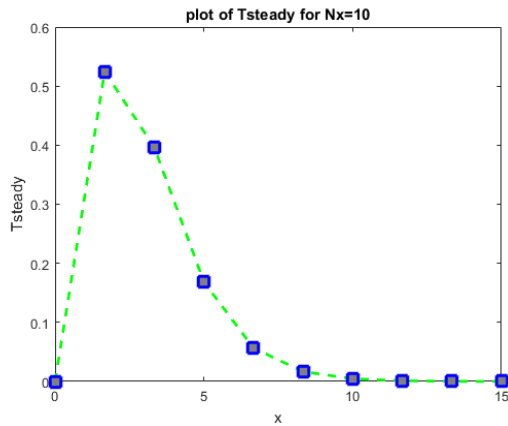
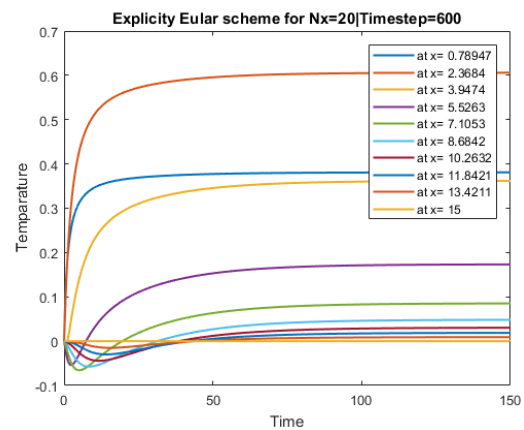
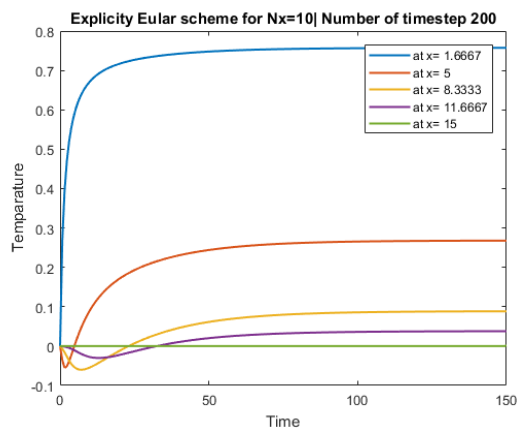


Question-3

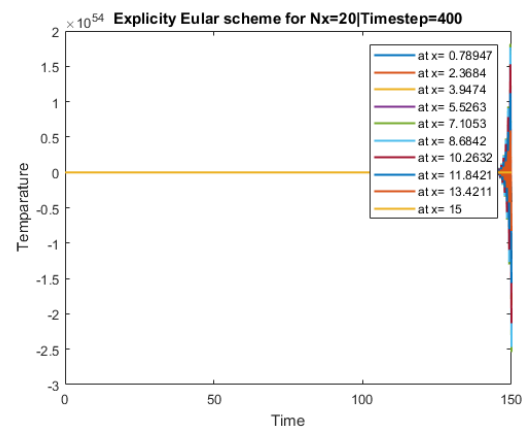
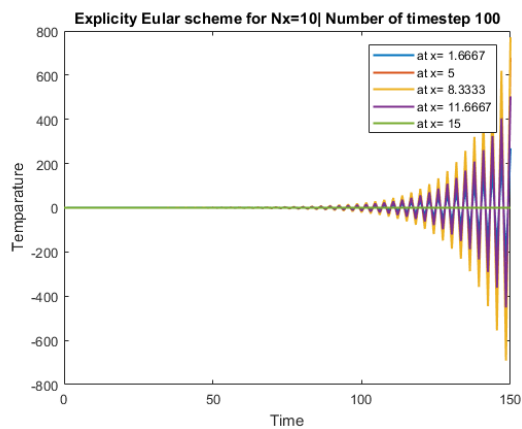
- T_{steady} plot for $N_x=10$ and 20



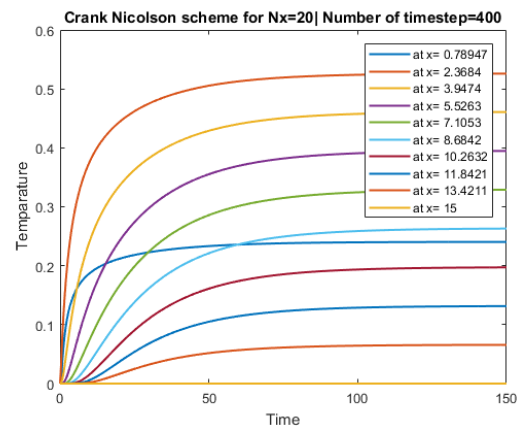
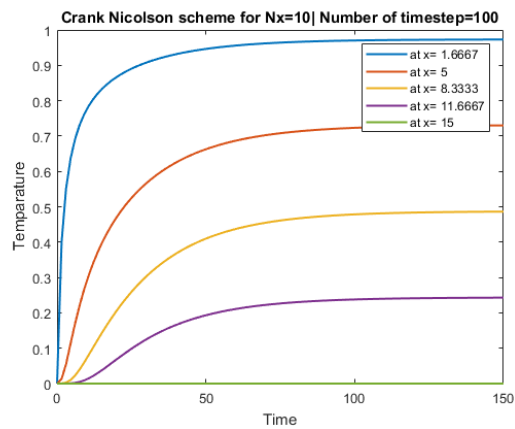
- Explicitly Euler Method



- Explicit Euler Method Unstable Run



- Crank Nicolson Method



The Results shows that the crank Nicolson method is stable at fewer time step run