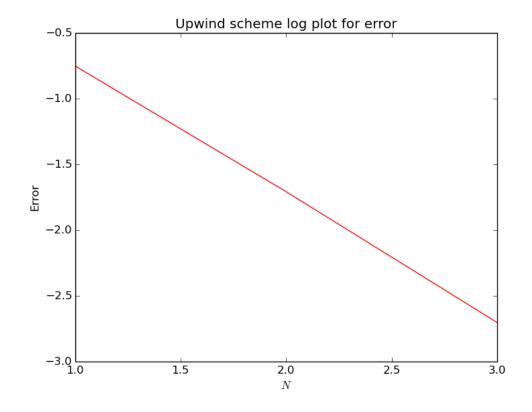
Assignment 4 Numerical Method for PDE

Results:

Error values

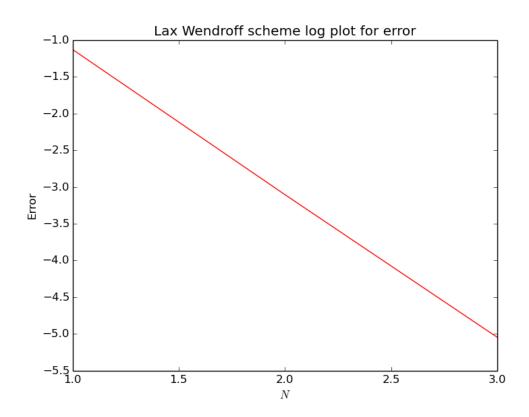
1) Upwind Scheme

The Upwind Scheme error for 10 is 0.176679 The Upwind Scheme error for 100 is 0.0195212 The Upwind Scheme error for 1000 is 0.0019724



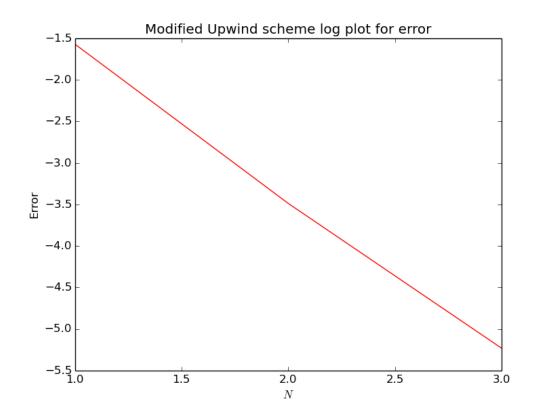
2) Lax- Wendroff Scheme

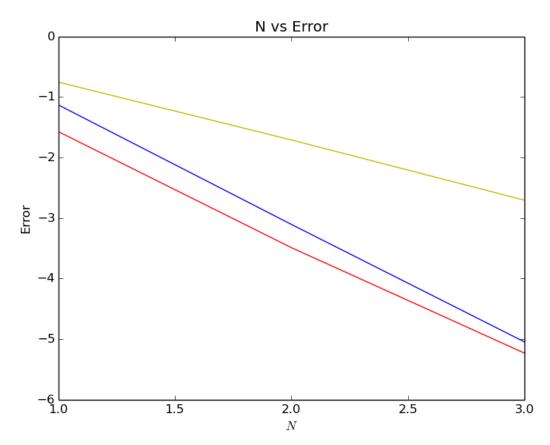
The Lax-Wendroff Scheme error for 1000 is 8.94925e-06 The Lax-Wendroff Scheme error for 10 is 0.0742555 The Lax-Wendroff Scheme error for 100 is 0.000784558



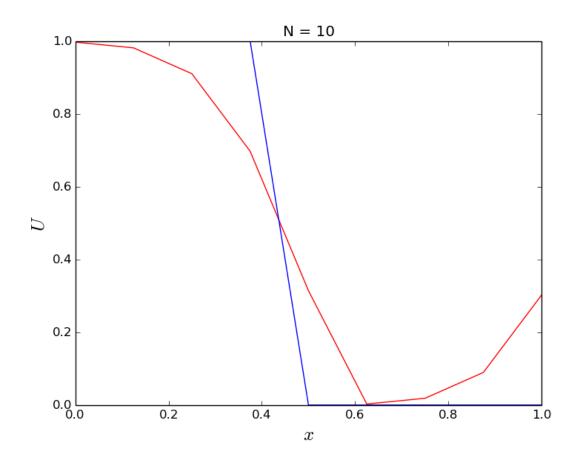
3) Modified Upwind Scheme

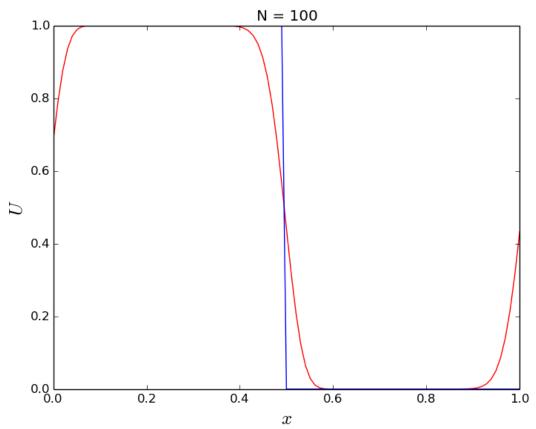
The Upwind Scheme error for 10 is 0.0268606 The Upwind Scheme error for 100 is 0.000324157 The Upwind Scheme error for 1000 is 5.84126e-06

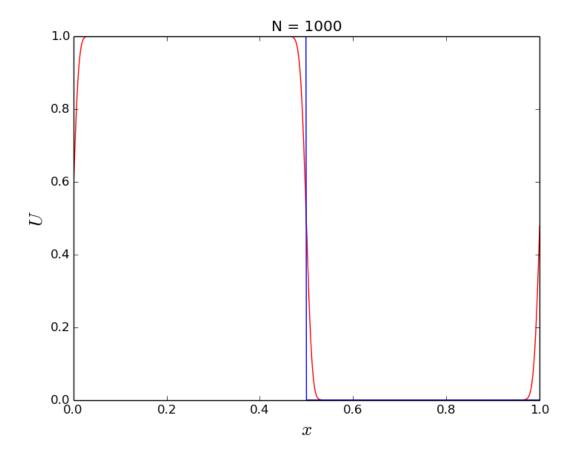




2) Discontinuous : Upwind Scheme







Lax-Wendroff Scheme

