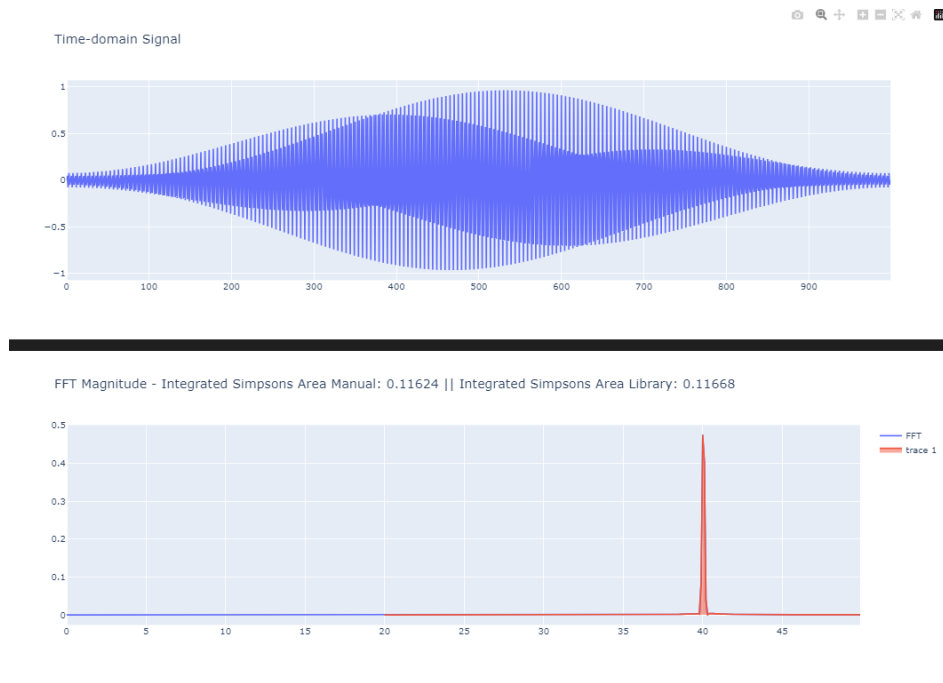
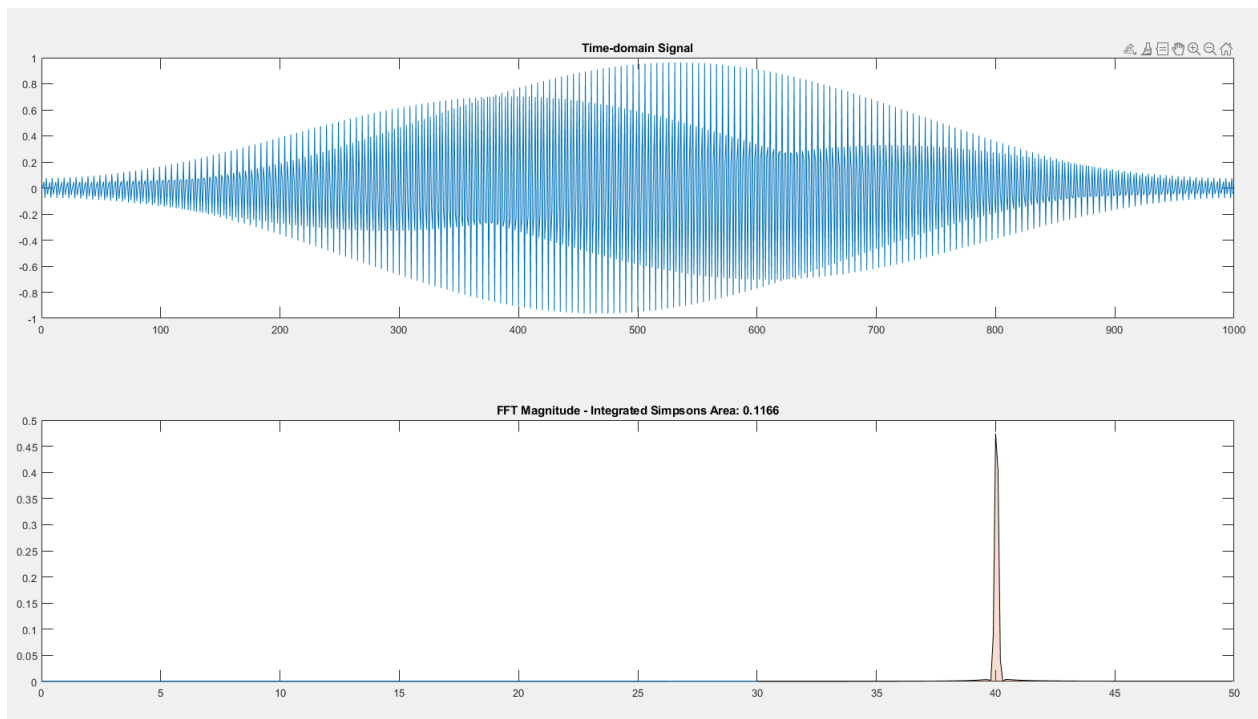


1a - python



1a - matlab



1b - python

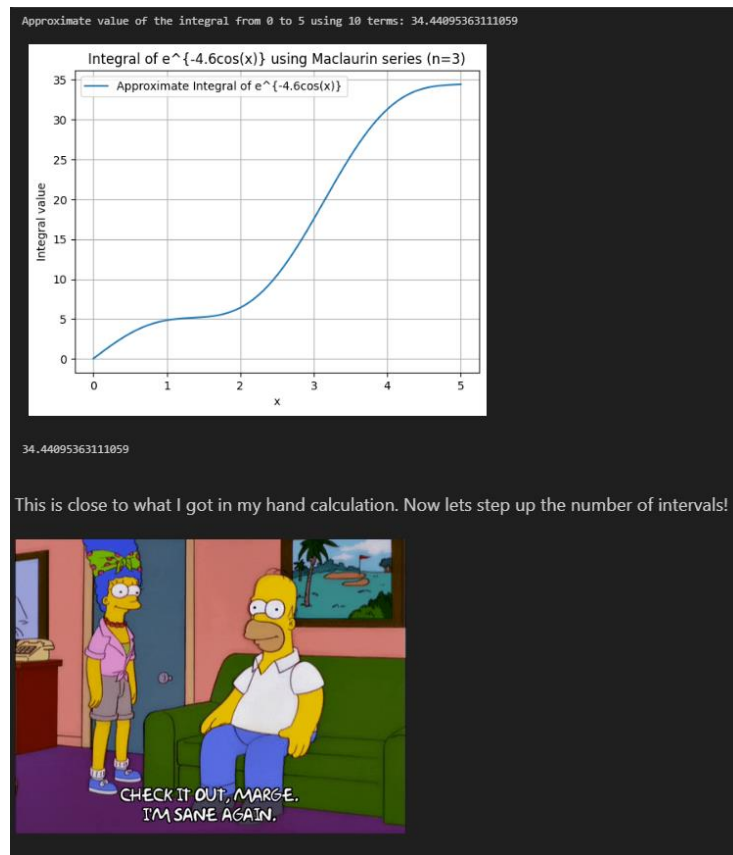


Figure 1: Maclaurin Series - checking validity of low N value hand calc

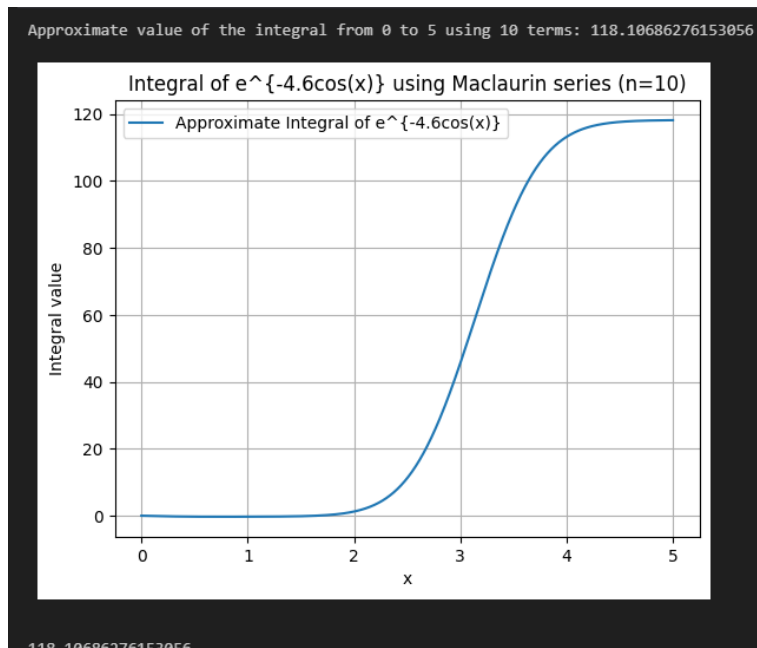
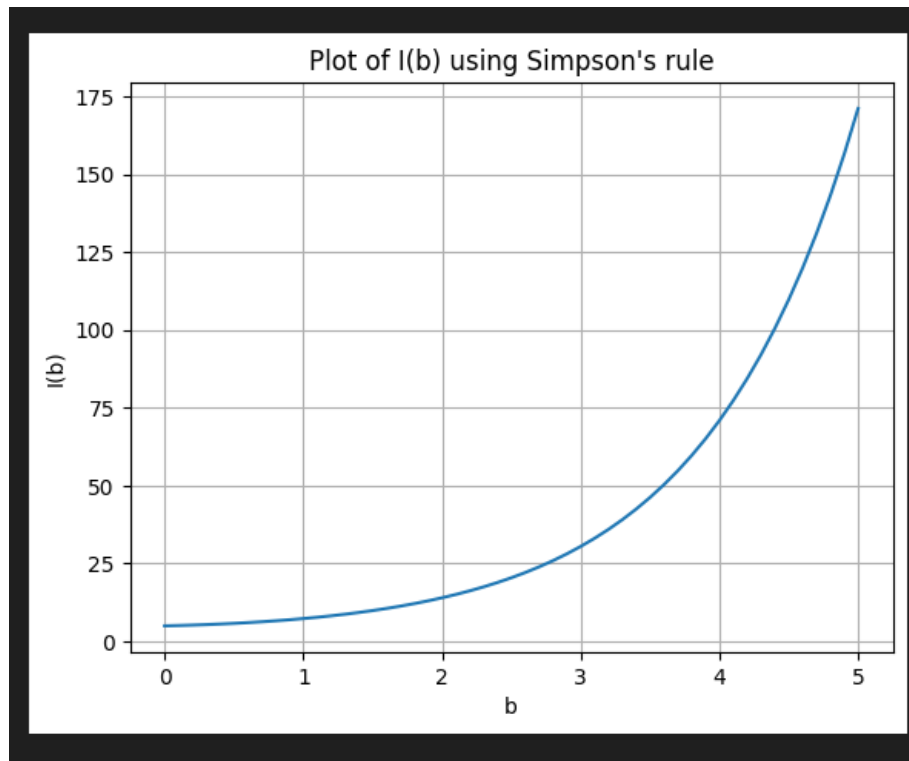
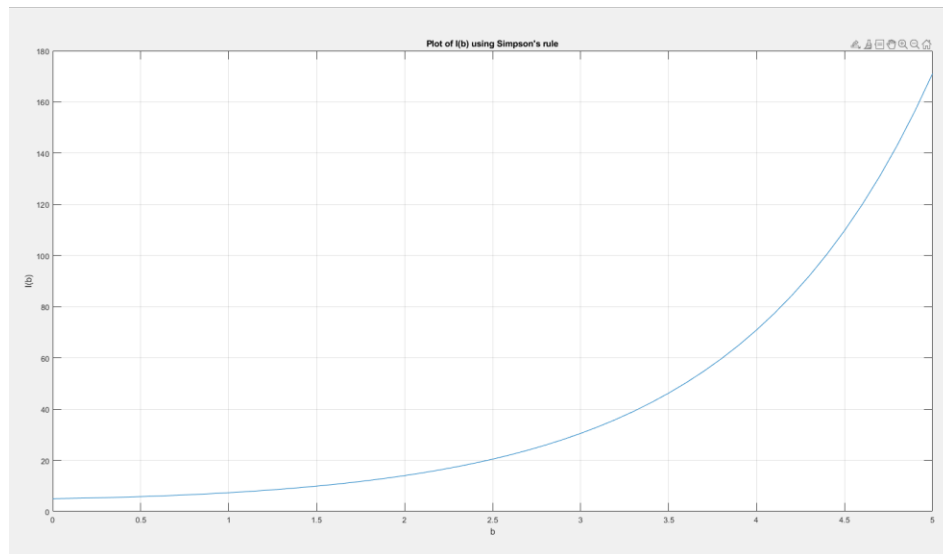


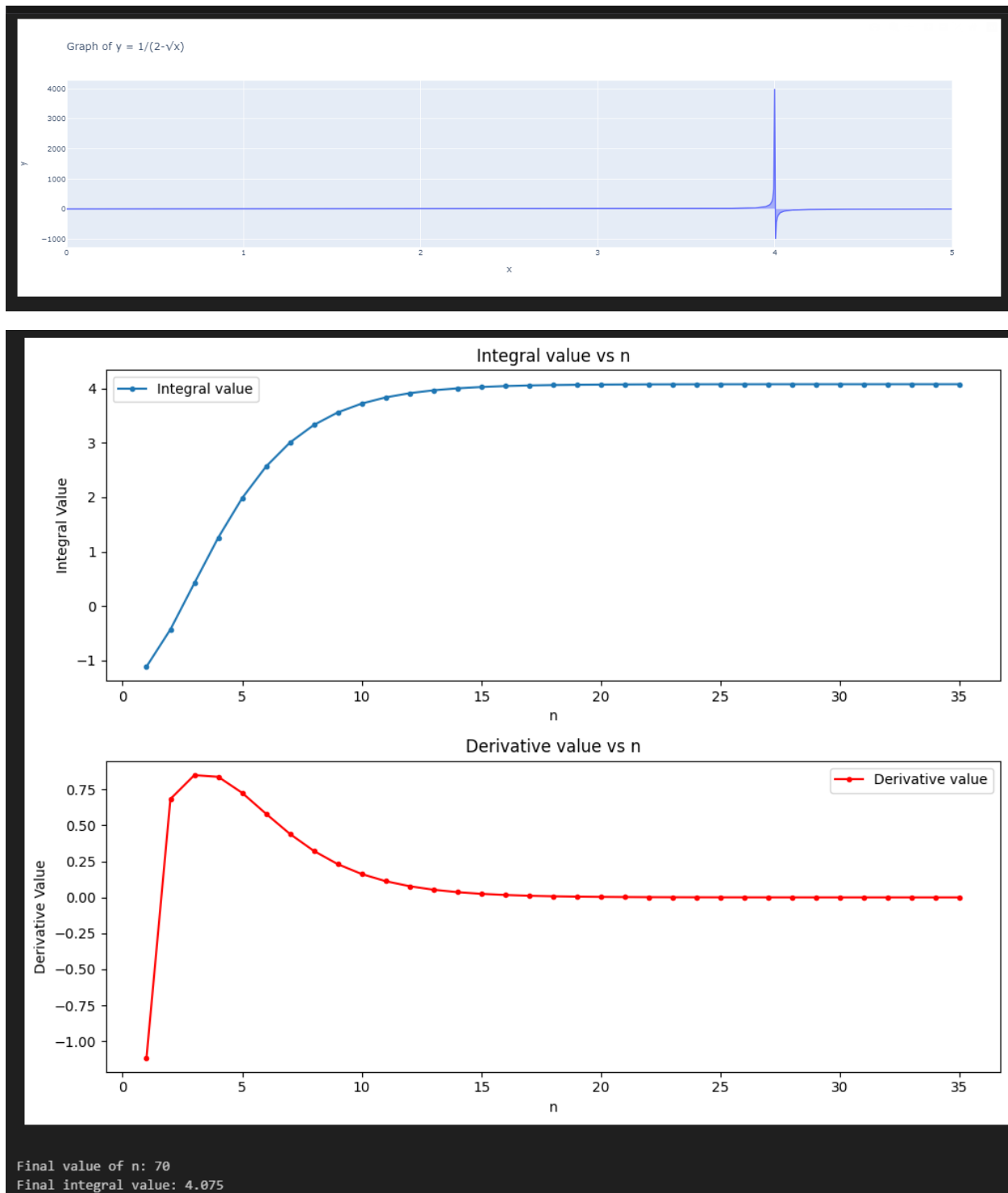
Figure 2: increasing N to compare to Simpson Rule



1b – matlab



1c – python

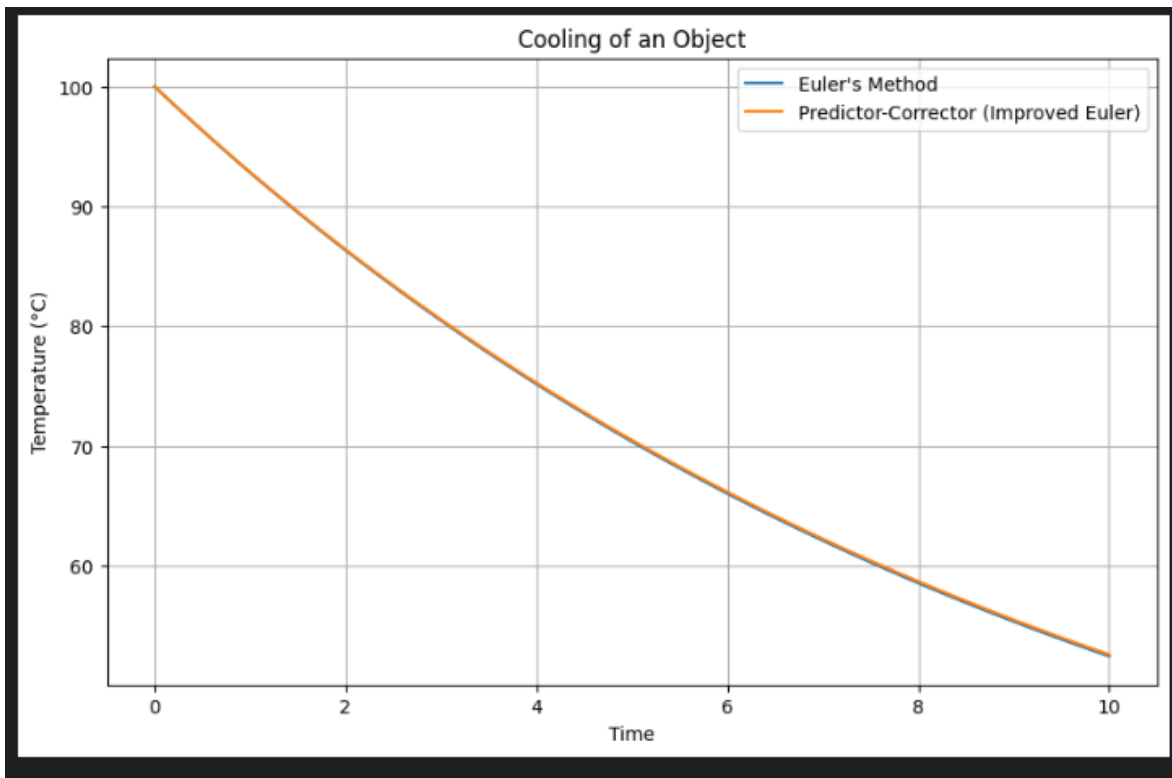


1c – matlab

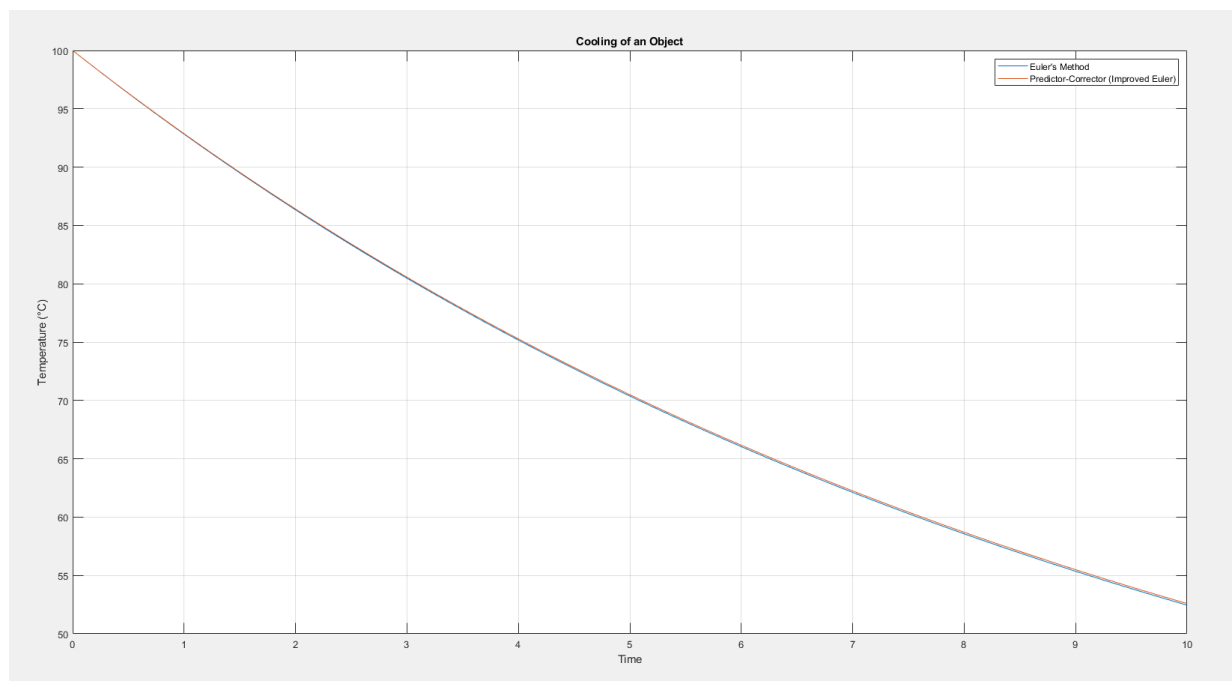
**** <https://www.mathworks.com/help/matlab/ref/integral.html> - matlab uses the same approach!!

Output - Value of I from 0 to 5: 4.07500

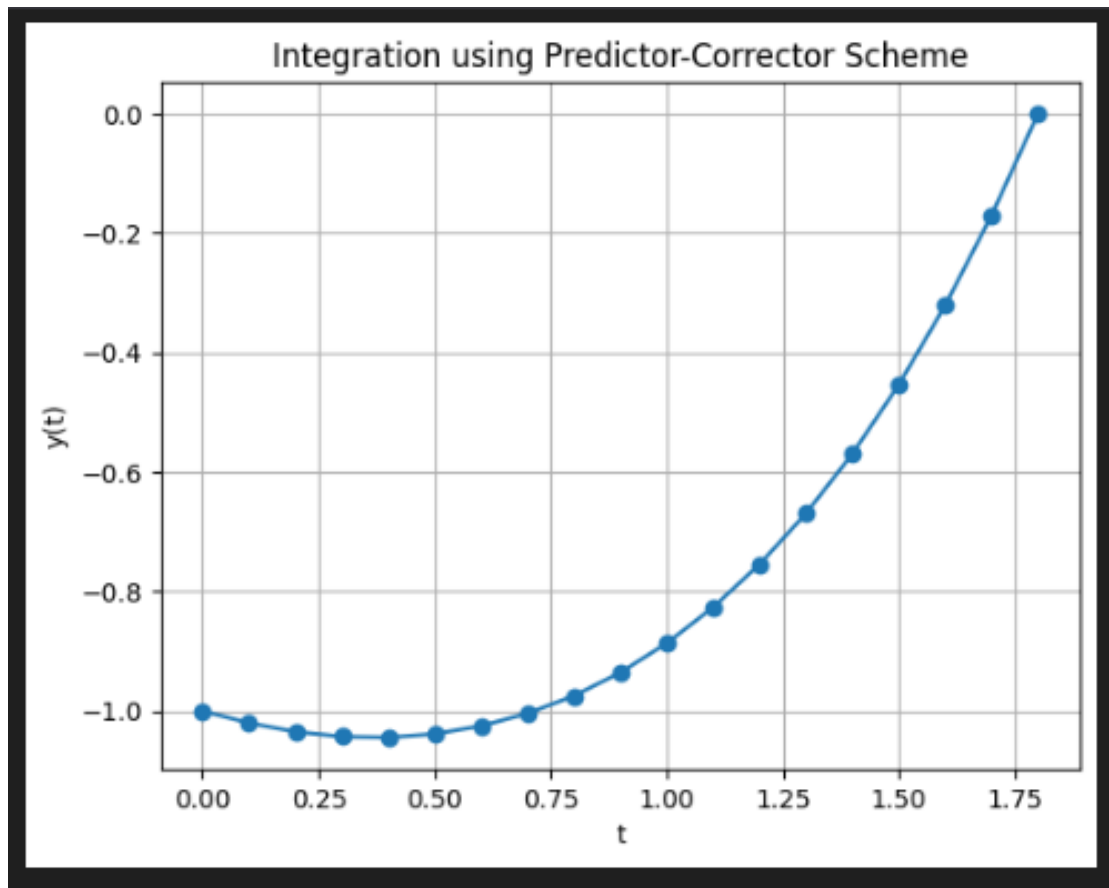
2a – python



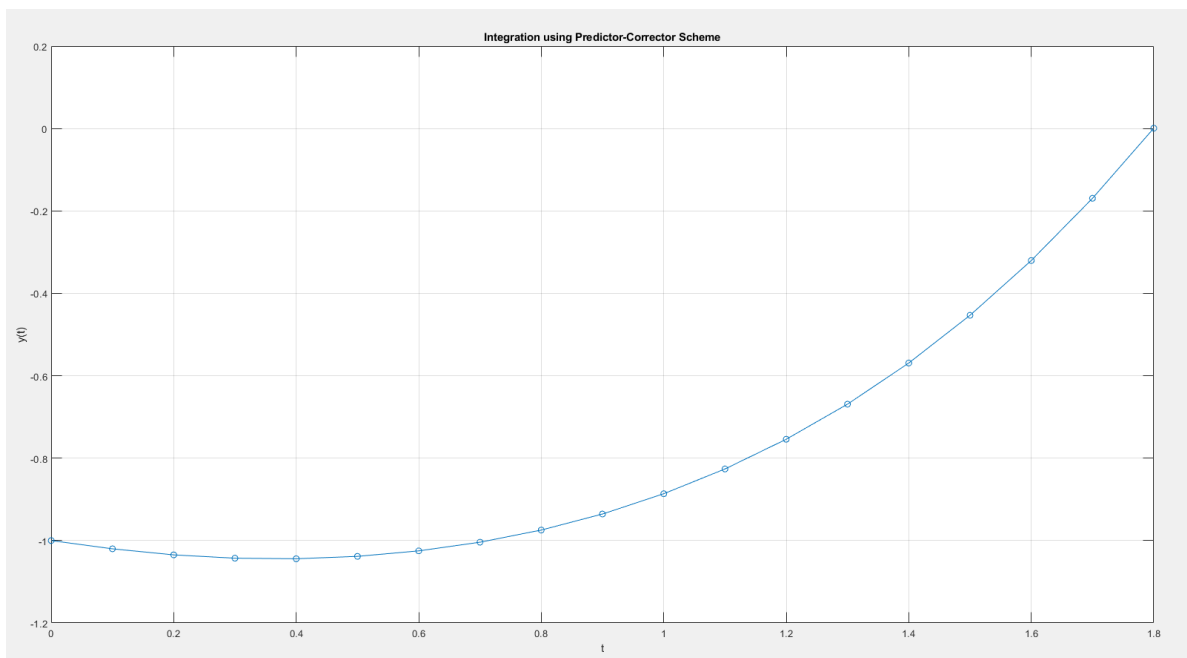
2a – matlab



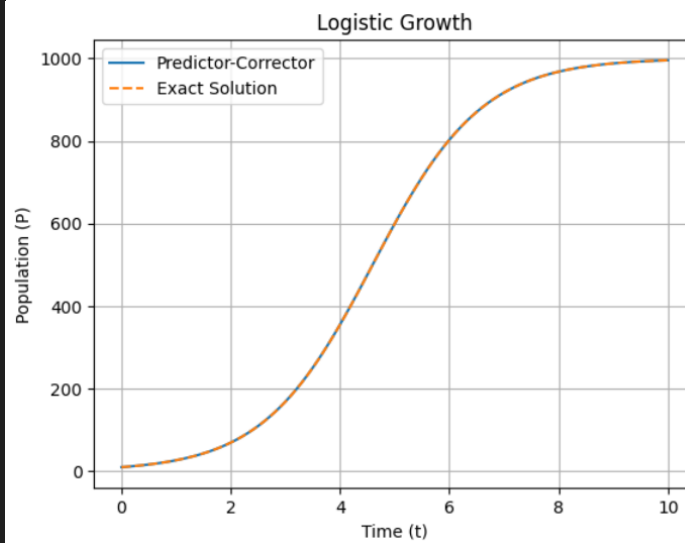
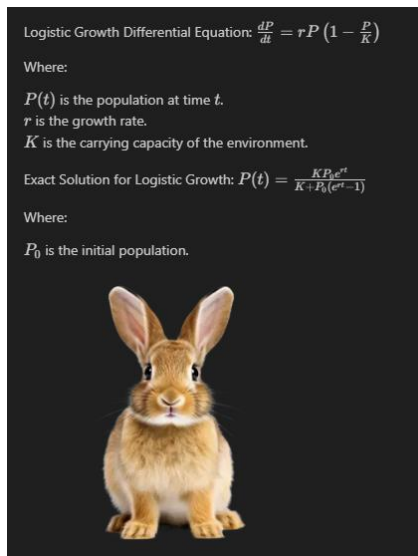
2b – python



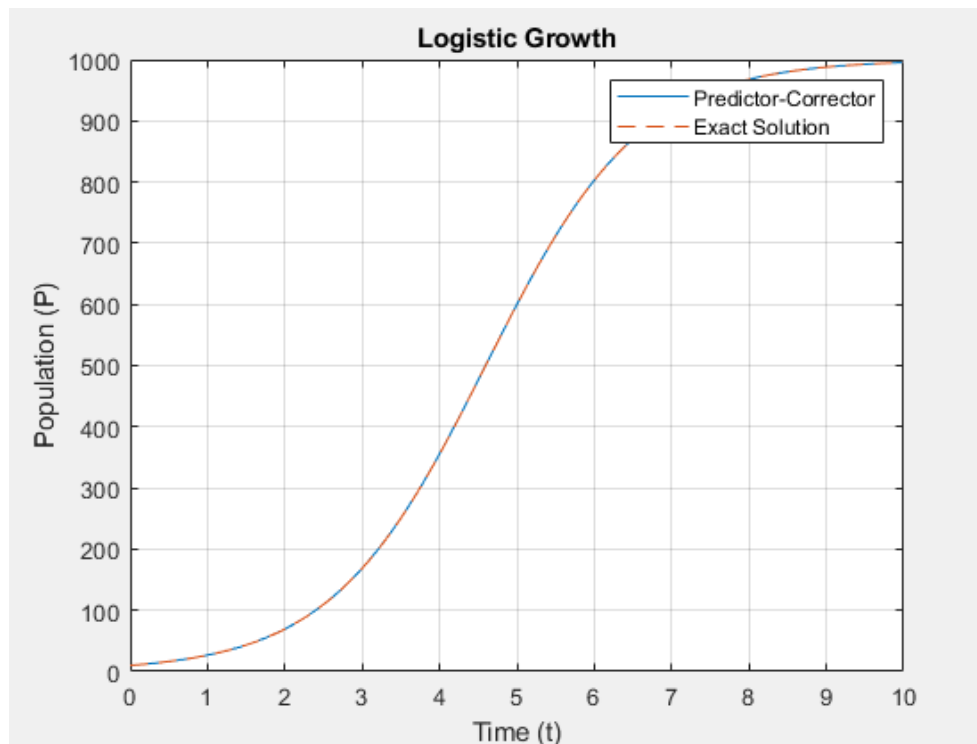
2b – matlab



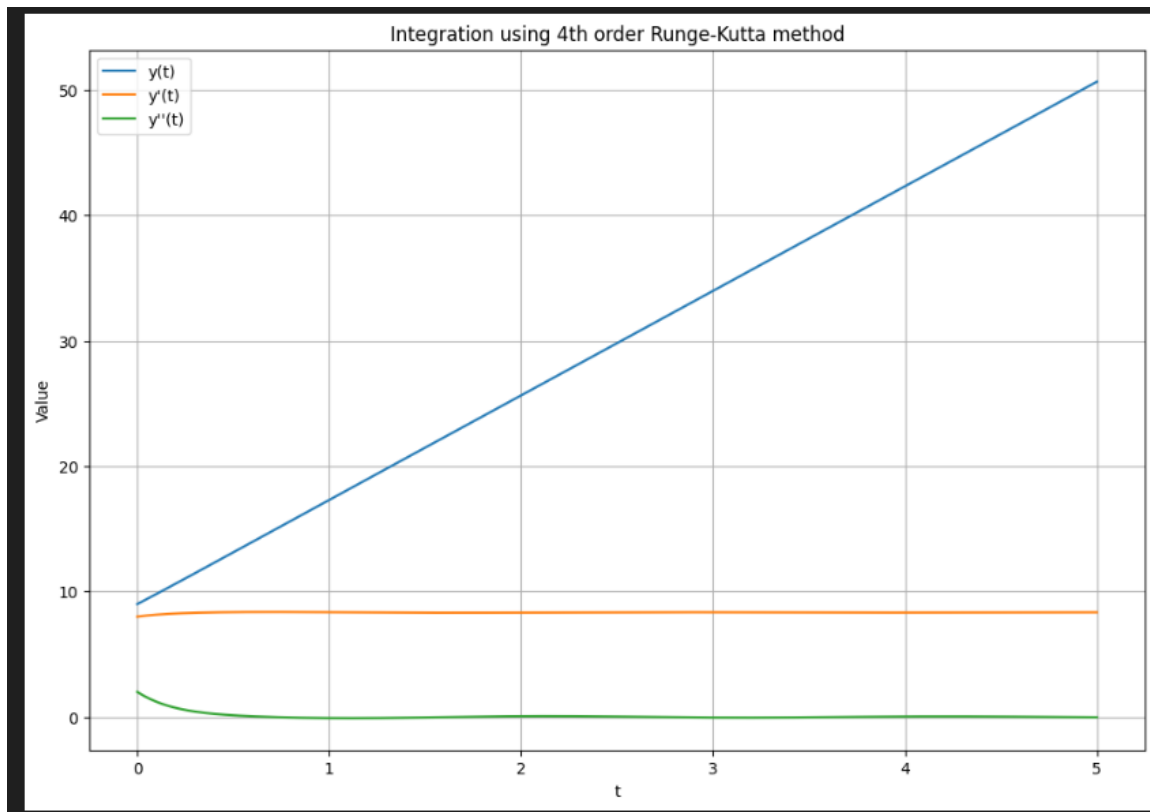
3a – python



3a – matlab



3b – python



3b – python

