Assignment 2
Root finding

Write a code for computing root of the equations below using

(a) Bisection method
(b) Newton method
(c) Secant method.

Use the code for solving the following equations,
1. $\exp(x) - x - 2$
2. $x^5 - 8x^4 + 44x^3 - 91x^2 + 85x - 26$

In each case, stop the iterations once the difference between two consecutive values is lesser than 10^{-6}.

A. For bisection method: Choose interval [-4,1] for both problems.
B. For Newton method: Choose starting guess as 1 for both problems.
C. For Secant method: Choose the initial guesses as -4 and -1 for both problems.

Also, your code should write output a data file for each case, in two columns format in which first column is iteration count and second column is absolute error as discussed in class.