ASSIGNMENT -1

1. Find the root of the equation $x * e^x = \cos x$ in the interval(0,1) using Regula Falsi method correct upto four decimal places.

2. Evaluate $\sqrt{12}$ to four decimal places by Newton's iterative method.

3. Find a real root of the equation $3x + \sin x - e^x = 0$ by the method of false position correct to four decimal places.

4. Compute root of the equation $x^2 e^{-x/2} = 1$ in the interval $[0, 2]$ using secant method. The root should be correct to three decimal places.

5. Perform the the following floating point calculations:
   (i)   .9432 E – 4 from .5452 E – 3
   (ii)   (.4546 E 3) + (.5454 E 8)