

3/9/2019

Assignment-2:

Consider the linear boundary value problem,

$$Y'' = p(x).Y' + q(x).Y + r(x) ; \quad x \text{ belongs to } [a, b]$$

Boundary conditions: $y(a) = s_1$ and $y(b) = s_2$;

Create a program which implement linear shooting method (using two set of initial conditions) for above BVP. Use the appropriate conditions, which are required for insuring uniqueness of solution.

Note that:

1. Proper documentation should be used in the codes
2. You have to submit a program. Name of the file should be: **"Ass3_EntryNu"**
3. There will be evaluation of this assignment during some practical session, you will be informed before.
4. Total Marks for this assignment = 4.
5. No cheating allowed.