LaB Assignments

ram sarkar | Numerical methods | monday 2:30pm

|  |  |
| --- | --- |
| STUDENT NAME: | Aishik Pyne |

| Task | Due Date | Done | Initials |
| --- | --- | --- | --- |
| ASSIGNMENT 1  Develop a C program to implement bisection method. Test your program to find a root of following equation  X\*Sin(x) + cos(x)=0; x in (0, Pi)  The solution needs to be correct up to 6th place after decimal point. Display the output in a tabular form with the following info.   * i (iteration count) * a (lower bound of interval in which the root is such) * b(lower bound) * m (mid point) * fa() * fb() * e(epsilon) * O.c(order of convergence)   Modify the above program to implement the method of false position on the same equation. Make a comparative assessment of the 2 methods on the basis of the results you obtain | July 18 |  |  |
|  | [Date] |  |  |
|  | [Date] |  |  |
|  | [Date] |  |  |
|  | [Date] |  |  |
|  | [Date] |  |  |
|  | [Date] |  |  |
|  | [Date] |  |  |
|  | [Date] |  |  |
|  | [Date] |  |  |