The code implementation consists of the following main steps:

1. **User Input:** The user is prompted to enter the rank of the linear equation system, which should be between 1 and 10.
2. **Matrix and Vector Generation:** The coefficient matrix A and the constant vector C are generated randomly.
3. **Display of Coefficients and Constants:** The coefficient matrix A and the constant vector C are displayed.
4. **System of Linear Equations:** The system of linear equations is displayed in the format AX = C.
5. **Determinant Calculation:** The determinant of the coefficient matrix A is calculated. If the determinant is zero, the system has no unique solution.
6. **Solution Calculation:** The solution of the linear equation system is calculated using Cramer's rule.
7. **Verification of Solution:** The solution is verified by substituting it back into the original system of equations.