1. **Main Class**- might contain methods for parsing input equations and dispatching them to appropriate solver classes.
2. **Linear equations Class** - This class handles linear equations of the form `ax + b = 0`. It should provide methods to solve single linear equations and systems of linear equations.
3. **Quadratic class** - Handles quadratic equations of the form `ax^2 + bx + c = 0`. This class should provide methods to solve single quadratic equations and handle complex roots.
4. **Polynomial Class** - Handles polynomial equations of degree higher than two.
5. **Trigonometric Class**
6. **Exponential Class**- Handles equations involving exponential functions like `e^x`.
7. **Logarithmic Class** - Handles equations involving logarithmic functions like `log(x)`.