\*\*Assignment Report: Quadratic Equation Verifier\*\*

\*\*Introduction:\*\*

The Quadratic Equation Verifier project focuses on validating the roots of a quadratic equation through computational methods. This report highlights the functionality of the `main` function, which is the core component of the project.

\*\*Main Function (`main`):\*\*

The `main` function encounters the following issue due to the inability to use the `pow` function with complex numbers:

\*\*Problem Encountered:\*\*

The main function attempts to calculate the square root of the discriminant using the `pow` function, which is not applicable to complex numbers. As a result, the calculation of the square root for complex components of the discriminant cannot be directly performed.

\*\*Solution:\*\*

To address this issue, the `sqrt` function should be used instead of `pow` to calculate the square root of the discriminant for complex numbers. By utilizing the `sqrt` function, the calculation can be performed effectively for both real and imaginary components of the discriminant.

\*\*Conclusion:\*\*

The `main` function serves as the central component of the Quadratic Equation Verifier project, performing essential tasks such as calculating and verifying the roots of a quadratic equation. By addressing the issue related to complex arithmetic, the function can effectively handle quadratic equations with complex roots.