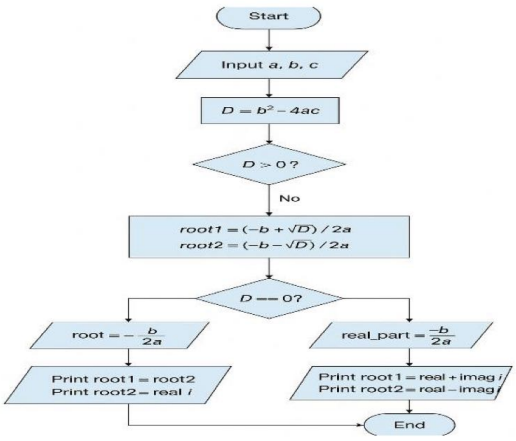
PROBLEM 2.1.1

Flowchart



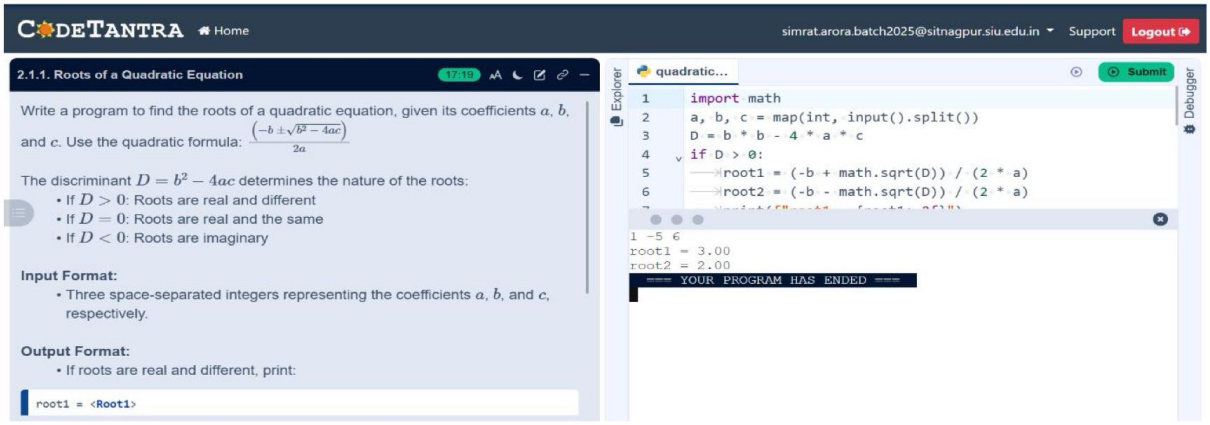
Algorithm

Start

Input: Read three integers (a, b, and c) from a single line of input.

Calculate Discriminant: Compute D using the formula: D = b^2-4ac

- **If D > 0 (Real and Different):**
  - Calculate $root1 = \frac{-b + \sqrt{D}}{2a}$
  - Calculate $root2 = \frac{-b - \sqrt{D}}{2a}$
  - Print both roots.
- **If D = 0 (Real and Same):**
  - Calculate the single root: $root = \frac{-b}{2a}$
  - Print that `root1 = root2` equals this value.
- **If D < 0 (Imaginary/Complex):**
  - Calculate the **Real Part**: $\frac{-b}{2a}$
  - Calculate the **Imaginary Part**: $\frac{\sqrt{-D}}{2a}$
  - Print the roots in the complex format (e.g., `real + imaginary i`).

Formatting: Ensure all printed values are formatted to exactly **two decimal places**.

Stop