C and Embedded C programming Week 2 Assignments

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Assignment 1

▶ find all roots of a quadratic equation. Using :

1. If-else if statement.

2. Switch case statement.

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

when $ax^2 + bx + c = 0$

Input: 1,1,1
Expected output
-0.500 + 0.866i
-0.500 - 0.866i

Assignment 2

▶ Write a program in C ask the user for an integer make such a pattern like a pyramid with an asterisk. The pattern is as follows for :

input rows: 4

Expected output:

```
   *
  * *
 * * *
* * * *
```