Lab 4 Deliverables

Design

1. The inputs needed are the values of a, b and c
2. The necessary output from the application is the answer to the quadratic equation, given a, b and c. An alternative output is informing the user of an invalid value (such as a=0 in the denominator)

Plan and Code

1. Psuedocode

Get values of a, b and c

Calculate the discriminant

If discriminant is less than 0, output “equation has no real roots”

Multiply discrim by -1 to make it positive, concatenate ‘i’ to the end and display imaginary roots

If discriminant is equal to 0, output the double root

Otherwise output both roots

* 1. Inputs: values of a, b and c
  2. Process: calculate discrim, decide if discrim is <0 or >0
  3. Outputs: Based on value of the discriminate, display either no roots, 1 root or 2 roots with i’s concatenated to the end.

Write code

See attached