

Lab Assignment-1 Question-1

ECSE379L: Programming using C++

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Question 1: Find the roots of a quadratic equation.

Algorithm: (Stepwise)

Step 1: Start

Step 2: Declare all the required variables

Step 3: Input the required coefficient values a, b, c

Step 4: Compute $d=b^2-4ac$

Step 5: If $d<0$, goto Step-5.1 else, goto Step-5.3

Step 5.1: Compute $p=-b/2a$, $q=\sqrt{|d|}/2a$

Step 5.2: Display $p<<"+i"<<q$, $p<<"-i"<<q$ and goto Step-6

Step 5.3: Compute $x_1=(-b+\sqrt{d})/2a$, $x_2=(-b-\sqrt{d})/2a$

Step 5.4: Display x_1 , x_2

Step 6: Stop

Flowchart: (Next Page)

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