Faculty of Computer Science & Engineering

Assignment Number – 2

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Algorithm

Step 1: Start.

Step 2: Initialize variables a, b, c, d, x1, x2.

Step 3: Read input for the coefficients of the eqn. a, b, c.

Step 4: If a = 0 goto step 3.

Step 5: store the discriminant in variable d = b2 + 4ac.

Step 6: If d < 0, display the roots of the eqn. are imaginary and end.

Step 7: Display roots are real.

Step 8: Calculate the value of roots x1 and x2, use formula (-b±√d)/2a.

Step 9: Display the roots x1, x2 to the user.

Step 10: End