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**Q1) PROGRAM TO FIND SOLUTIONS OF QUADRATIC EQUATION:**

```
import java.util.Scanner;

public class Main {

    public static void main(String[] Strings) {

        Scanner input = new Scanner(System.in);

        System.out.print("Input a: ");

        double a = input.nextDouble();

        System.out.print("Input b: ");

        double b = input.nextDouble();

        System.out.print("Input c: ");

        double c = input.nextDouble();

        double result = b * b - 4.0 * a * c;

        if (result > 0.0) {

            double r1 = (-b + Math.pow(result, 0.5)) / (2.0 * a);

            double r2 = (-b - Math.pow(result, 0.5)) / (2.0 * a);

            System.out.println("The roots are " + r1 + " and " + r2);

        } else if (result == 0.0) {

            double r1 = -b / (2.0 * a);

            System.out.println("The root is " + r1);

        } else {

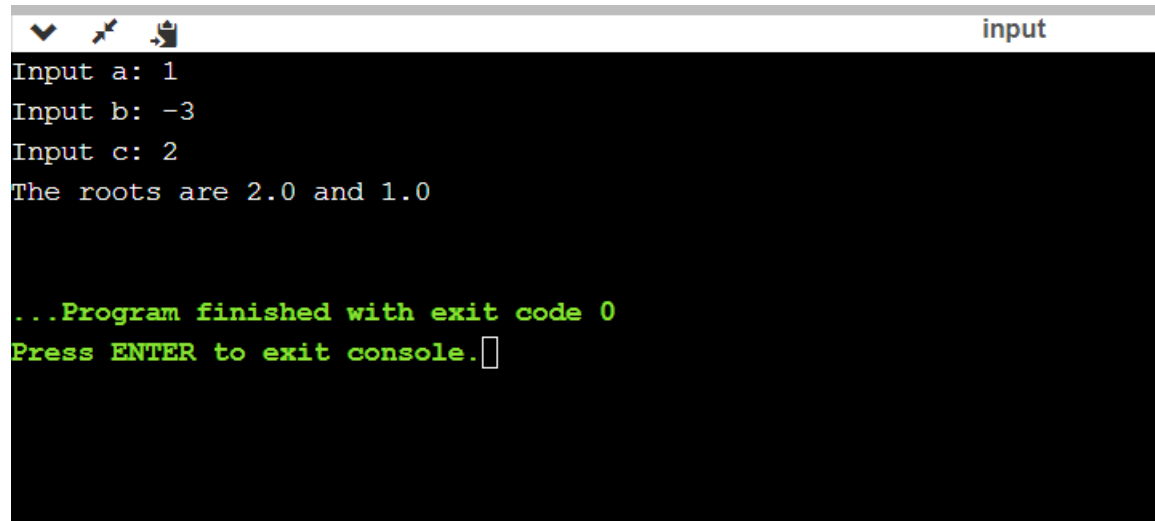
            System.out.println("The equation has no real roots.");

        }

    }

}
```

## OUTPUT:



```
Input a: 1
Input b: -3
Input c: 2
The roots are 2.0 and 1.0

...Program finished with exit code 0
Press ENTER to exit console.
```