Abstract.java | Quad.java

```
import java.util.Scanner;

class Quad {
    public static void main(String[] args) {

        double a, b, c, discriminant, root1, root2;
        Scanner s1 = new Scanner(System.in);
        System.out.print("Enter the coefficient a: ");
        a = s1.nextDouble();

        System.out.print("Enter the coefficient b: ");
        b = s1.nextDouble();

        System.out.print("Enter the coefficient c: ");
        c = s1.nextDouble();

        if (a==0 || b==0 ||c==0){
        System.out.print("Invalid Input");
        }
        else{
          discriminant = b * b - 4 * a * c;

        if (discriminant >= 0) {

            root1 = (-b + Math.sqrt(discriminant)) / (2 * a);
            root2 = (-b - Math.sqrt(discriminant)) / (2 * a);

            System.out.println("Real solutions:");
            System.out.println("Root 1: " + root1);
            System.out.println("Root 2: " + root2);
        } else {

            System.out.println("No real solutions, discriminant is
negative.");
        }
     }
    }
}
```

```
(base) madhupandey@Madhus-MacBook-Air javalab % javav Quad.java

zsh: command not found: javav
(base) madhupandey@Madhus-MacBook-Air javalab % javac Quad.java

(base) madhupandey@Madhus-MacBook-Air javalab % java Quad
Enter the coefficient a: 1
Enter the coefficient b: 5
Enter the coefficient c: 2
Real solutions:
Root 1: -0.4384471871911697
Root 2: -4.561552812808831
(base) madhupandey@Madhus-MacBook-Air javalab %
```