

```

import java.util.Scanner;
class QuadraticEquation {
    public static void main(String[] args) {
        Scanner sc= new Scanner(System.in);
        System.out.println("Enter the Coefficient. of a:");
        int a= sc.nextInt();
        System.out.println("Enter the Coefficient of b:");
        int b= sc.nextInt();
        System.out.println("Enter the Coefficient of c:");
        int c= sc.nextInt();
        if (a==0){
            System.out.println("Invalid Input");
        }
        double d=(b*b)-4*a*c;
        if (d>0){
            System.out.println("Real and Distinct Roots");
            double r1= (-b+ Math.sqrt(d))/(2*a);
            double r2= (-b- Math.sqrt(d))/(2*a);
            System.out.println("The roots of the Equation is:");
            System.out.println(r1+"and"+r2);
        }
        else if (d==0){
            System.out.println("Real and Equal Roots");
            double r= -b/(2*a);
            System.out.println("Roots:"+r);
        }
        else{
            System.out.println("No Real Roots");
        }
    }
}

```

```

Enter the Coefficient. of a:2
Enter the Coefficient of b:-8
Enter the Coefficient of c:3
Real and Distinct Roots
The roots of the Equation is:
3.58113883008419 and 0.41886116991581024

```