

```
import java.util.Scanner;  
class Quadratic {
```

```
    Public
```

```
    public static void main(String[] args) {
```

```
        Scanner s = new Scanner(System.in);
```

```
        System.out.println("Enter the value of a\n");
```

```
        double root1, root2;
```

```
        double a = s.nextDouble();
```

```
        System.out.println("Enter the value of b\n");
```

```
        double b = s.nextDouble();
```

```
        System.out.println("Enter the value of c\n");
```

```
        double c = s.nextDouble();
```

```
        double dis = (b*b) - (4*a*c);
```

```
        if (dis > 0)
```

```
        {
```

```
            root1 = (-b + Math.sqrt(dis) / (2*a));
```

```
            root2 = (-b - Math.sqrt(dis) / (2*a));
```

```
            System.out.println("2 Dist roots are
```

```
                root1 = " + root1 + " root2 = "
```

```
                + root2);
```

```
        else if (dis == 0)
```

```
        {
```

```
            root1 = root2 = (-b / (2*a));
```

```
            System.out.println("\n two real and equal  
roots exists: roots exists: root1 = " + root1 + "
```

```
            root2 = " + root2);
```

```
        else { System.out.println("\n no real solution");
```

```
        }
```

```
    }
```

```
}
```