```
r1 = ((-b) + (Math.sqrt(d)))/(double)(2*a);
r2 = ((-b) - (Math.sqrt(d)))/(double)(2*a);
System.out.println("Roots are real and distinct");
System.out.println("Root 1 =" + r1 + "Root 2 =" + r2);
}
else if (d<0)
{
System.out.println("Roots are imaginary");
r1 = (-b)/(2*a);
r2 = Math.sqrt(-d)/(2*a);
System.out.println("Root 1 =" + r1 + "+ i" + r2);
System.out.println("Root 1 =" + r1 + "-i" + r2);
}
}
}
```

```
class QuadraticMain
{
public static void main (String args[])
{
Quadratic q = new Quadratic();
q.getd();
q.compute();
}
}
```

Output

Enter the coefficients of a,b,c
1 2 1
Roots are real and equal
Root 1 = Root 2 = -1.0

Enter the coefficients of a,b,c
2 6 2
Roots are real and distinct
Root 1 = -0.3819 ..... Root 2 = -2.61803...

Enter the coefficients of a,b,c
1 1 1
Roots are imaginary
Root 1 = -0.5 + i0.8660 ....
Root 2 = -0.5 - i0.86602 ....

Enter the coefficients of a,b,c
0 1 2
Not a quadratic equation
Enter a non zero value for a