(1) Quadratic Equations infart java util Scarer; Public static void mail Storing ars[]) Scorner, 2 rew Scorner (System. in): System. out. farith ("Enter he coefficients c, b, c'); double a = 8 restInt(); double e 2 8. nest Int (): double (= 8. restind()) double ri, sz, dj d = l+l+-1, a*c; double res = Math. rgnt (d); 1 (0==0) System out frintle (" Invalid input for a"); ib (d>0) System out founds ("The roots are real 212 (-b+Math, 191) 310 (-le + se) (6 * a) 1. System. Out. frintly ("The roots are:"+21. else if (d==0) JEKNINI L

stom out faintly elje System out feather "The System out pointly (31+"+1"+22+"/n"+8 Enter the coefficients a, b, c modil input for a Entern coefficients al, c The root have no real solution and one imagina ·O+11.4441356 1. 11421356 - 11.41421356

Enter the coefficients a, b c

1

The roots are real and equal

Roots are 31=32=1.0Enter to coefficients a, b, c

4

The roots are real and distinct

Command Prompt

```
Enter the coefficients a,b,c
0
2
3
Invalid input for a
C:\Users\bmsce\Desktop\Aryan>java Quad
Enter the coefficients a,b,c
1
2
1
The roots are real and equal
Roots are r1=r2=-1.0
C:\Users\bmsce\Desktop\Aryan>java Quad
Enter the coefficients a,b,c
1
5
The roots are real and distinct
The roots are:-0.20871215252208009 -4.7912878474779195
C:\Users\bmsce\Desktop\Aryan>java Quad
Enter the coefficients a,b,c
1
2
3
The roots have no real solution and are imaginary
```