```
PS C:\Users\Admin\Desktop\1bm22cs177> javac QuadraticMain.java
PS C:\Users\Admin\Desktop\1bm22cs177> java QuadraticMain
Enter the coefficients of a,b,c
1 2 1
Roots are real and equal
Roo1 = Root2 = -1.0
PS C:\Users\Admin\Desktop\1bm22cs177> java QuadraticMain
Enter the coefficients of a,b,c
1 1 1
Roots are imaginary
Root1 = 0.0 + i0.8660254037844386
Root1 = 0.0 - i0.8660254037844386
PS C:\Users\Admin\Desktop\1bm22cs177> java QuadraticMain
Enter the coefficients of a,b,c
262
Roots are real and distinct
Roo1 = -0.3819660112501051 Root2 = -2.618033988749895
PS C:\Users\Admin\Desktop\1bm22cs177> java QuadraticMain
Enter the coefficients of a,b,c
0 2 3
Not a quadratic equation
Enter a non zero value for a:
6
Roots are imaginary
Root1 = 0.0 + i0.6871842709362768
Root1 = 0.0 - i0.6871842709362768
PS C:\Users\Admin\Desktop\1bm22cs177> ^S
```

Quaddractic? import java util Scamer; does guadatic { int a, b, c; double 91, 22, 8; nocal getall) q to metalle & scanner s= new Scanner (Systemin) Dystem out printla ("Enter coefficient of a, b, ("); a = S. next Int (); distant b= s. next Int (); + more ? c=snext [nt(); void compute () { while (a = = 0) { equation Enter not zero value for a: "); Scanner S= new Scanner (System.in); allow tovail somext Text (); 3) d=b*b-4+a*c; /if (d = = 0) { onl = (-b)/(2*a); System out pourth (a Roots are great & sequal is); situal saleday 2 dystem out printle (a Root 12 Root 2 = 421). epob" + eyeb-nous + "= ling A = 1 12

PAGE No:
DATE: / / else if (d>0) { 91 = ((-b) + (math squit (d)) / (double) (2*a); 92 = ((-b) = (math.squt(d)) / (double) (2*a); dystem out println (a Roots are real & district "); stool = 1 tool System. out. pountla ("Root) ="+91+" Root2=" else if (d<0) Edystem out pointle (a Roots ou maginary), 22 = Math . sgrt (-d)/(2+a); System out println ("Root =" r1+"+i"+i" +r2) System. out. println ("Root 2 = 92 +"-i"+92); of leader the coefficients (eff la) class guadractic Main & publice station void main (string angel I) Quadratic q 2 new Quadractic (). q. getd(); q compute (); or quadratic experie

the more eres non

Output alce if (d>0) 5 I Enter the coefficients of a, b, c xe) (de) and (66) tout. Hans) = (d-) Roots are real & equal Root 1 = Root 2 = -1.0 du den out parte ("Rapt = "+ 91+" Poo I Enter the coefficients of a,b,c Roots are imaginary Root 1 = 0 + 1 0.866025 =-Root 2 - 0 - 1.0.866025 dystem out printer ("Protie" +1+"+; Lyston out privater ("Proote="43+"-1"+22) I Enter the coefficients of a, b, c 2 6 2 Roots are real and distinct Root 1 = -0.38196 Root 2= -2-6180339 Quadrate que nous Quadrice Enter the coefficients of a, b, c Not a quadratic equatic Enter a non zero value for a

