003 LAB- 1 Quadratic Equation import java util Sanner; Class Quadrabic ent a, b, c; double 91, 912, d; voich getd() Scanner &= new Scanner (System on); System out possible ("Enter the coefficients"); a = somest Int (); b= as next Int(); C= S. next Inf(). yoid compute() nhile (a = = 0) System out perten (" Not a quadratic ear"). System. Out paintle (" Entua nonzero value) Scannes &= new Scannes (System. 8). a = so next Int(); d= 5xB- 4x a\* c; i) (cl = = 0) 81 = (-b)/2\*a.

System: out peintln ("Roots au equal");

System: out peintln ("Root = Root 2= "+x1);
} else if (d>0) 91) = ((-b) + (Moth-squet (d)))/(clouble)(2\*a); 912 - ((-b) - (Math. wast (d)))/(double)(2\*a); System out println ("Roots are real & distinct") System-out-paintln (" 2001)="+21+" Root 2"

= +22); else if (dro) System out peintln ("Roots are Braginary"). 91 2 = Math- soyet (-d)/(2\*a).

System out penth ("Root 2 = "+91+"+1"+92).

System out pentln ("Root 2 = "+912+"+1"+92). class Quadrotic Marn public static void man (stung argred) Quadratic q = new Quadratic (); q = getd (); q = compaile (); System out pointle ("Shamanth");

Output:
Enter the coefficients of ashing
Entu the coefficients of a,b,c
2
Roots are real and capial.
Root 1 = Root 2 = -1.0
Shamounth - 1BM22cs 251
Enty coefficients of a.b.
Entre coefficients of a, b, c
3
A
Roots are real and district
101 Root 1 = -1.0 Root 2 = -2.0
Shamanth - IBM 22 CS 251
Enter coefficients q a, b, c
2
3
Root ar imaginary
Poot 1 = 0-1+1° 1-198578808
Root 2 = 0 · D & - i 1 · 1985 78808
Shamanth - 1BM22CSD51
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