Aditi A 1BM19(5006 29 9 20 B) write a fava program to find all noots of quad of import java util scarner; public class Quad-egn } ¿ public class static void moin (string [] args) Scanner sc = new Scanner (System in) 3 double 21,22; System. out println ("Enter the value of a: "); double a = sc · nest Double (); System out println ("Enter the value of b: ");
I double b = sc. next Double (); double C=sc. next Double (); double d = (b\*b) -(4\*a\*c); double sgrit = Math. sgrit (d); if (d≥0 91 = (-b+sqrt)/(2\*a); 12 = (-b-sqrt)/(2\*a); System. out. printly ("Roots are real and distinct" 1.0.44 and Jan 9.0.4 ( 2 201, 92); else if (d==0) 九1=九25 System out printly C" Roots are real and

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regual: "+ (15/10/0); 900.4 f. and 9.0.4 f./11,72);
else if (d<0)
system. out. println ("Roots are imaginary and complex"); 47-6/(2*a) + "+1" + sqrt 5;
complex" 10 4 = 6/(2 a) + "+1" + sail +
"and "+ (-1) (200) + "-1" + sqrt 15
<b>2</b>
Algorithm -
1. Start
2. Read/input a, b, c.
3. Define d'as determinant and calculate d= b2-4ac.
4. If d>0, 2 real & distinct noots exist.
. 5. 4 d=0 = 2 real & equal roots exist.
6. H d<0, imaginary roots (complex).
Fruit roots n, & no for each case.
8. End
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