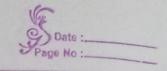


9-1-24 dale Programno. 1 Develop a Java program that points all real solutions to the quadratic equation $ax^2 + bx + c = 0$. Read in a, b, c and use the quadratic formula. If the discriminate b2-4ac is negative, display a message stating that there are no real solutions. class Quadratic int a,b,c; double x1,x2,d; void getd() Scanner 3 = new Scanner (System in) System out println ("Enter the coefficients of a, b, c:"); a=s. next Int(); 1 = 5. next(nt(); c=s. nextInt(); void compute () while (a = = 0) System out println ("Not a quadratic equation");



System out println ("Enter a

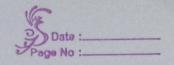
non zero value for a:");
Scanner S= new Scanner (System-in
a = s. nextInt();

d = b*b - 4 *a*c; if (d = = 0) System out pointln ("Roots are real

System out pointln ("Roots are real

System out pointln ("Roots = Root = "+xi); else if (d>0) r1 = ((-b) + (Math. squt (d)))/(double)(2*a). r2 = ((-b) - (Math. squt (d)))/(double)(2*a). System. out. println ("Roots are real System out println ("Root1="+r1+" "+

"Root2="+r2); else if (d<0) System out println l'Roots avre imaginary"); $\gamma_1 = (-b)/(2*a);$ System out println ("Root ="+++"+i"+x);
System out println ("Root ="+++"+i"+x);



class Quadratic Main fullic static void main (Stringary),

Quadratic q = new Quadratic();

q. getd();

q. compute();

3 Outfut: Enter the coefficients of a,b,c: Roots are imaginary

Roots = -1.0 + 11.4142135623730951

Root2 = -1.0 - 11.4142135623730951 2. Enter the coefficients of a, b, c: Roots are real and distinct Root1 = 0. 7836116248912243 Root2 = -1.64075448203408 3. Enter the coefficients of a, b, c: 1-8 16 Roots are real and equal Root1 = Root2 = 4.0