d = 62-1,00 Pego No. d = 1 26/9/24 Date Program I Develops Java program that prints all real solutions to quadratic equation ax2+ba+c=0. Read in a,b,c and use quadratic formula. If discriminate  $b^2 = 4ac$  is higative, display missage stating that there are no real solutions import java. util. Scanner; public static void main (string[]args) Scanner sc = new Scanner (system.in); System. out. printer ("Enter coefficient q a: "); double a = & nextDouble(); System, out, printer ("Enter coefficient of b;"); double b = sc. nextDouble (); system. out. println ("Enter coafficient q c:"); double c = Sc. nextDoublel); double disc = b\*b-40\*a\*c; y (desc >0) double noot = (-b + Math. sqrt(disc))/(2\*a);double groot 2 = (-b - Math. squt(disc))/(2\*a);system. out, println (" Equation has two real roots: "+ root 1 + " + root 2); else y (disc ==0) double noot = -b/2\*a; system, out println ("Equation has one real solution + root);

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import java.util.Scanner;
class Quadeq
{
  public static void main (String[] args)
  {
    Scanner sc = new Scanner (System.in);
    System.out.println("Enter coefficient of a:");
    double a = sc.nextDouble();
    System.out.println("Enter coefficient of b:");
    double b = sc.nextDouble();
    System.out.println("Enter coefficient of c:");
    double c = sc.nextDouble();
    double disc = b*b-4*a*c;
    if(disc>0)
    {
      double root1 = (-b+Math.sqrt(disc))/(2*a);
      double root2 = (-b-Math.sqrt(disc))/(2*a);
      System.out.println("Equation has two real roots: "+root1+" "+root2);
    }
    else if(disc==0)
    {
      double root = -b/(2*a);
      System.out.println("Equation has one real solution: "+root);
    }
    else
    {
      System.out.println("Equation has no real roots");
    }
  }
}
```

```
D:\lBM23CS330>java Quadeq
Enter coefficient of a:
2
Enter coefficient of b:
5
Enter coefficient of c:
3
Equation has two real roots: -1.0 -1.5

D:\lBM23CS330>java Quadeq
Enter coefficient of a:
1
Enter coefficient of b:
4
Enter coefficient of c:
4
Equation has one real solution: -2.0

D:\lBM23CS330>java Quadeq
Enter coefficient of a:
5
Enter coefficient of c:
4
Equation has one real solution: -2.0

D:\lBM23CS330>java Quadeq
Enter coefficient of c:
4
Equation has no real roots

D:\lBM23CS330>
```