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IBM19CSD31

```java
import java.util.Scanner;
class quadratic
{
public static void main (String args [])
{
Scanner sc = new Scanner (System.in);
double a,b,c,r1,r2,d;
System.out.println ("Enter the values of a, b, c");

a = sc.nextDouble();
b = sc.nextDouble();
c = sc.nextDouble();
d = (b*b)-(4*a*c);
if (d<0)

System.out.println ("No real roots for the given quadratic
                        equation");

else if (d>=0)
{
r1 = (-b+(Math.sqrt(d)))/(2*a);
r2 = (-b-(Math.sqrt(d)))/(2*a);
if (d==0)
{
System.out.println(" Roots are real and equal").
System.out.printf(" the roots are : %.2f and %.2f", r1,r2);
}
else
{
System.out.println ("Roots are real and unequal");
System.out.printf (" The roots are : %.2f and %.2f", r1,r2);
}
}
}
}
```