Quadratic - Notepad

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```
import java.util.*;
class Quadratic
{
public static void main(String [] arg)
{
Scanner s =new Scanner(System.in);
System.out.println("Enter a,b,c of the equation ax^2+bx+c=0:");
double a=s.nextDouble();
double b=s.nextDouble();
double c=s.nextDouble();
double d=b*b-4.0*a*c;
double roots1,roots2;
System.out.println(d);
if(d>0)
{
System.out.println("roots are real and unequal");
roots1=(-b-Math.sqrt(d))/(2.0*a);
roots2=(-b+Math.sqrt(d))/(2.0*a);
System.out.println("root1 :"+roots1+" root2:"+roots2);
}
else if(d==0)
{
System.out.println("Roots are real and equal ");
roots1=(-1*b)/(2*a);
roots2=roots1;
System.out.println("root1: "+roots1+"root2:"+roots2);
}
else
{
System.out.println("roots are imaginary ");
}
}
```

Command Prompt

```
        at java.util.Scanner.nextDouble(Scanner.java:2413)
        at Quadratic.main(Quadratic.java:8)

C:\Users\Hima\Desktop\java>java Quadratic
Enter a,b,c of the equation ax^2+bx+c=0:
1 -1 -6
roots are real and unequal
root1 :-2.0 root2:3.0

C:\Users\Hima\Desktop\java>java Quadratic
Enter a,b,c of the equation ax^2+bx+c=0:
1 2 1
roots are real and unequal
root1 :-1.0 root2:-1.0

C:\Users\Hima\Desktop\java>javac Quadratic.java

C:\Users\Hima\Desktop\java>java Quadratic
Enter a,b,c of the equation ax^2+bx+c=0:
1 1 1
-3.0
roots are imaginary

C:\Users\Hima\Desktop\java>java Quadratic
Enter a,b,c of the equation ax^2+bx+c=0:
1 -1 -6
25.0
roots are real and unequal
root1 :-2.0 root2:3.0

C:\Users\Hima\Desktop\java>java Quadratic
Enter a,b,c of the equation ax^2+bx+c=0:
1 2 1
0.0
Roots are real and equal
root1: -1.0root2:-1.0

C:\Users\Hima\Desktop\java>java Quadratic
```