

Quadratic - Notepad

File Edit Format View Help

```
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 ");
        }
    }
}
```

Type here to search

Links 11:49 AM 12/22/2020

```
Command Prompt
C:\Users\Widhu>cd desktop
C:\Users\Widhu\Desktop>cd java
C:\Users\Widhu\Desktop\java>set path="C:\Program Files\Java\jdk1.8.0_261\bin"
C:\Users\Widhu\Desktop\java>javac Quadratic.java
C:\Users\Widhu\Desktop\java>java Quadratic
Enter a,b,c of the equation ax^2+bx+c=0:
1 -1 6
-23.0
roots are imaginary
C:\Users\Widhu\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\Widhu\Desktop\java>java Quadratic
Enter a,b,c of the equation ax^2+bx+c=0:
1 -2 -3
16.0
roots are real and unequal
root1 :-1.0 root2:3.0
C:\Users\Widhu\Desktop\java>
```