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```
import java.util.Scanner;
class quad
{
    public static void main(String args[])
    {
        Scanner s=new Scanner(System.in);
        System.out.println("THE QUADRATIC EXPRESSION IS ax^2+bx+c");
        System.out.println("ENTER THE VALUE OF a");
        int a=s.nextInt();
        System.out.println("ENTER THE VALUE OF b");
        int b=s.nextInt();
        System.out.println("ENTER THE VALUE OF c");
        int c=s.nextInt();
        double d=Math.pow(b,2)-(4*a*c);
        int deno=2*a;
        double r1,r2;
        if(d>0)
        {
            System.out.println("THE ROOTS ARE REAL AND UNEQUAL");
            r1=(-b+Math.sqrt(d))/(deno);
            r2=(-b-Math.sqrt(d))/(deno);
            System.out.println("the roots are "+r1+"and"+r2);
        }
        else if(d==0)
        {
            System.out.println("THE ROOTS ARE REAL AND EQUAL");
            r1=(-b)/(deno);
        }
    }
}
```

file length: 956 lines: 37 Ln: 14 Col: 40 Sel: 0|0

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quadratic.java - Notepad++

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```
System.out.println("ENTER THE VALUE OF c");
int c=s.nextInt();
double d=Math.pow(b,2)-(4*a*c);
int deno=2*a;
double r1,r2;
if(d>0)
{
    System.out.println("THE ROOTS ARE REAL AND UNEQUAL");
    r1=(-b+Math.sqrt(d))/(deno);
    r2=(-b-Math.sqrt(d))/(deno);
    System.out.println("the roots are "+r1+"and"+r2);
}
else if(d==0)
{
    System.out.println("THE ROOTS ARE REAL AND EQUAL");
    r1=(-b)/(deno);
    r2=(-b)/(deno);
    System.out.println("the roots are "+r1+"and"+r2);
}
else
{
    System.out.println("THERE ARE NO REAL SOLUTIONS FOR THE EQUATION");
}
}
```

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```
c:\JAVA\bin>javac quad.java
javac: file not found: quad.java
Usage: javac <options> <source files>
use -help for a list of possible options
```

```
c:\JAVA\bin>javac quadratic.java
```

```
c:\JAVA\bin>java quad
THE QUADRATIC EXPRESSION IS  $ax^2+bx+c$ 
ENTER THE VALUE OF a
1
ENTER THE VALUE OF b
1
ENTER THE VALUE OF c
1
THERE ARE NO REAL SOLUTIONS FOR THE EQUATION
```

```
c:\JAVA\bin>java quad
THE QUADRATIC EXPRESSION IS  $ax^2+bx+c$ 
ENTER THE VALUE OF a
1
ENTER THE VALUE OF b
4
ENTER THE VALUE OF c
4
THE ROOTS ARE REAL AND EQUAL
the roots are -2.0and-2.0
```