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\* Unit 3 Activity 7 Program/Question 3

\* The program will ask the user to enter three values and then determines whether the triangle created is a right-angled triangle or not.

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import javax.swing.JOptionPane;

public class RightTriangle

{

public static void main(String[] args)

{

//Variable Declaration and Initialization

int a = Integer.parseInt(JOptionPane.showInputDialog(null,"Side one of triangle", "NUMBER INPUT", JOptionPane.QUESTION\_MESSAGE));

int b = Integer.parseInt(JOptionPane.showInputDialog(null,"Side two of triangle", "NUMBER INPUT", JOptionPane.QUESTION\_MESSAGE));

int c = Integer.parseInt(JOptionPane.showInputDialog(null,"Side three of triangle", "NUMBER INPUT", JOptionPane.QUESTION\_MESSAGE));

if(Math.pow(a, 2) == Math.pow(b, 2) + Math.pow(c, 2) || Math.pow(b, 2) == Math.pow(a, 2) + Math.pow(c, 2) || Math.pow(c, 2) == Math.pow(b, 2) + Math.pow(a, 2))

{

System.out.println("It is right triangle");

}//end if

else

{

System.out.println("It is NOT right triangle");

}//end else

}//end main

}//end class