

Hey ChatGPT!

Write me a simple Java program that calculates the area of a rectangle using JOptionPane dialogs. The program should:

Ask the user for the rectangle's length.

Ask the user for the rectangle's width.

Multiply them to find the area.

Display the result in a message dialog.

Please use methods for each part: one method for getting the length, one for getting the width, and one for displaying the area. Use static variables to store length, width, and area.

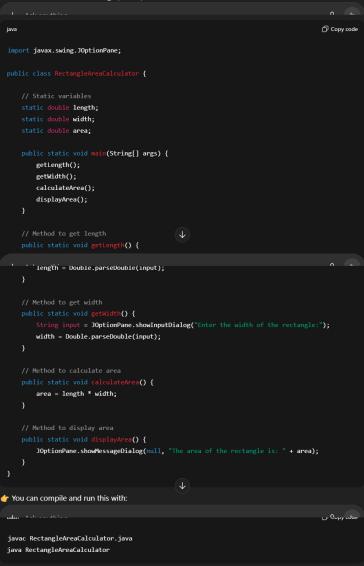
O 0

Got it! Here's a simple Java program using  $\sqrt{\text{JoptionP}}$  that follows your requirements:

Uses static variables for length, width, and area.

Ø

බ



Would you like me to also add **input validation** (so the program handles non-numeric input gracefully), or keep it strictly simple?

**д 6 д 7 2 ...** 

Make the Java code more organized by adding comments above each method that explain what it does. Keep the use of JOptionPane, static variables, and methods exactly the same.

Here's the updated version:

```
Copy code
import javax.swing.JOptionPane;
   // Static variables to store rectangle dimensions and area
   static double length;
static double width;
   static double area;
   public static void main(String[] args) {
       getLength();  // Ask user for length
getWidth();  // Ask user for width
       calculateArea(); // Compute the area
        displayArea(); // Show result
        String input = JOptionPane.showInputDialog("Enter the length of the rectangle:");
        length = Double.parseDouble(input);
        String input = JOptionPane.showInputDialog("Enter the width of the rectangle:");
       width = Double.parseDouble(input);
   public static void calculateArea() {
       area = length * width;
   public static void displayArea() {
        JOptionPane.showMessageDialog(null, "The area of the rectangle is: " + area);
```

Do you also want me to add a **class-level comment at the very top** (like a short description of what the program does), or keep comments only for the methods?

**добъте...** 

Please adjust the program so that the class is named AreaRec\_IOpt, include a comment header with program description, author, and date, and make the coc . to k neat and easy to read. Also the program's name must be JavaCode\_AreaRec\_IOpt\_Kandula\_Aryan

Got it It is a reased a reased and a proper comment header (with program description, author, and date), and ensure the formatting is neat and easy to read. The program's filename must be JavaCode\_AreaRec\_JOpt\_Kandula\_Aryan.java so the class name and file match.

Here's the updated version:

```
java

/**

* Program Name: JavaCode_AreaRec_JOpt_Kandula_Aryan

* Description: This program calculates the area of a rectangle.

* It uses JOptionPane dialogs to get the length and width

* from the user, calculates the area, and then displays it.

* Author: Kandula Aryan

* Date: September 21, 2025

*/
```

```
import javax.swing.JOptionPane;
     // Static variables to store rectangle dimensions and area
      static double length;
      static double width;
static double area;
      public static void main(String[] args) {
         getLength();  // Ask user for length
getWidth();  // Ask user for width
          calculateArea(); // Compute the area
          displayArea(); // Show result
      public static void getLength() {
          String input = JOptionPane.showInputDialog("Enter the length of the rectangle:");
          length = Double.parseDouble(input);
      * Prompts the user to enter the width of the rectangle
          String input = JOptionPane.showInputDialog("Enter the width of the rectangle:");
          width = Double.parseDouble(input);
         area = length * width;
          JOptionPane.showMessageDialog(null, "The area of the rectangle is: " + area);
★ To compile and run it correctly, save the file as:
JavaCode_AreaRec_JOpt_Kandula_Aryan.java
```

Would you like me to also add a **confirmation dialog** that asks the user if they want to calculate another rectangle's area (loop until they choose "No"), or keep it as a one-time calculation?

**Әб₽±с**...

That's Great! I got all I wanted, Thank you.

You're very welcome! 🞉 I'm glad the program turned out exactly how you wanted.

Good luck with compiling and running <code>JavaCode\_AreaRec\_JOpt\_Kandula\_Aryan.java</code> 🎻

Would you like me to also show you what the JOptionPane dialogs will look like step by step when the program runs, so you can visualize the flow?

о в о т с ...





