

Code Understanding Report

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This report presents automated insights based on large language models and code analysis tools.

File: `pasted_code.js`

Summary

- This code is solving a problem of calculating the area of a triangle using the Heron's formula which is based on side lengths. The prompts will ask the user for the side lengths. Then, the code calculates the semi-perimeter and finally, the area of the triangle is calculated using Heron's formula.

Docstring

- `### Code: // JavaScript program to find the area of a triangle`

```
const side1 = parseInt(prompt('Enter side1: ')); const side2 = parseInt(prompt('Enter side2: '));  
const side3 = parseInt(prompt('Enter side3: '));  
  
// calculate the semi-perimeter const s = (side1 + side2 + side3) / 2;  
  
//calculate the area const areaValue = Math.sqrt( s * (s - side1) * (s - side2) * (s - side3) );  
  
console.log( The area of the triangle is ${areaValue}
```

Docstring:

```
// This JavaScript program calculates the area of a triangle given the lengths of its three sides. //  
The area of a triangle is calculated using Heron's formula, which is the square root of // the sum  
of the squares
```

Code Quality

Tool: eslint

Issues: 0`

```
text [ESLint Not Found] [WinError 2] The system cannot find the  
file specified – assuming valid JS.
```

Conclusion

This code calculates the area of a triangle using the lengths of its three sides. The user is prompted to input the lengths of the three sides. Then, the code calculates the semi-perimeter of the triangle and finally, the area of the triangle is calculated using Heron's formula.