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 was written in JavaScript language. It takes sides of a triangle as inputs from user prompt and calculates the area using Heron's formula. The area of a triangle is the square root of [s*(s - a)*(s - b)*(s - c)], where s is the semi-perimeter of the triangle, a, b, c are the sides of the triangle. It then logs this area in the console.

Since JavaScript is a dynamically typed language, we don't need to declare a type.

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:

The following JavaScript program calculates the area of a triangle given the lengths of its three sides.

The program first prompts the user to input the lengths of the three sides of the triangle. It then calculates the semi-

Code Quality

Tool: `eslint`
Issues: 0`

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

Conclusion

This program will display the area of the triangle in a user-friendly format on the console. The area of the triangle is calculated using Heron's formula, and this formula is only valid for a triangle whose sides are all less than 1000 units long.