

Python Code: Calculate Area of a Triangle using Heron's Formula

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# Function to calculate the area of a triangle using Heron's formula

def triangle_area(a, b, c):

    # Calculate the semi-perimeter

    s = (a + b + c) / 2

    # Calculate the area

    area = (s * (s - a) * (s - b) * (s - c)) ** 0.5

    return area


# Example usage

if __name__ == "__main__":

    a = float(input("Enter the length of side a: "))

    b = float(input("Enter the length of side b: "))

    c = float(input("Enter the length of side c: "))

    area = triangle_area(a, b, c)

    print(f"The area of the triangle is: {area}")
```