

Computer programing

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1 area of triangle

```
#include <stdio.h>

int main()
float base, height, area;

    printf("Enter the base of the triangle: ");

    scanf("%f", &base);

    printf("Enter the height of the triangle: ");

    area = base * height * 1/2;

    printf("Area of triangle is %.2f\n", area);

return 0;
```

2 output

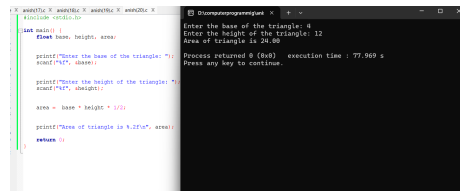
The image shows a screenshot of a code editor and a terminal window. The code editor on the left contains a C program for calculating the area of a triangle. The program includes the standard input/output header, defines a main function, declares variables for base, height, and area, prompts the user for base and height, reads the input, calculates the area using the formula $\text{area} = \text{base} \times \text{height} \times 1/2$, and prints the result. The terminal window on the right shows the program's execution. It prompts for the base of the triangle (4) and the height of the triangle (12), and then outputs the area of the triangle as 24.00. The terminal also shows the process returned 0 (exit) and the execution time was 77.969 s.

Figure 1: