```
1 #include <iostream>
 2 #include <cmath>
 4 class Triangle {
 5 private:
 6
     float base;
 7
      float height;
 8
9 public:
10
    // Constructor
       Triangle(float b, float h) : base(b), height(h) {}
11
12
13
      // Destructor
14
      ~Triangle() {
         std::cout << "Triangle object destroyed" << std::endl;</pre>
15
16
17
      // Function to calculate area
18
      float area() {
19
          return 0.5 * base * height;
20
21
22 };
23
24 int main() {
       float base, height;
25
26
     std::cout << "Enter the base and height of the triangle: ";</pre>
27
      std::cin >> base >> height;
28
29
      // Create triangle object
30
31
      Triangle tri(base, height);
32
      // Calculate and print area
33
34
       std::cout << "Area of the triangle: " << tri.area() << std::endl;</pre>
35
36
       return 0;
37 }
```