

C Programming Assignment 1

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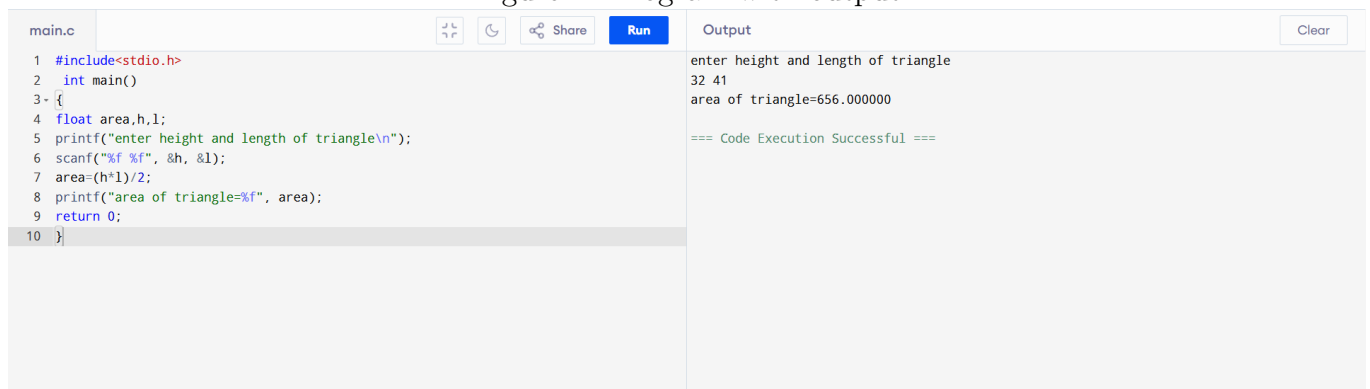
Question 20 : Area of a triangle.

Write a program in C Area of a triangle.

Code:

```
1 #include<stdio.h>
2 int main()
3 {
4     float area,h,l;
5     printf("enter height and length of triangle\n");
6     scanf("%f %f", &h, &l);
7     area=(h*l)/2;
8     printf("area of triangle=%f", area);
9     return 0;
10 }
```

Figure 1: Program with output



The screenshot shows a code editor with a file named 'main.c'. The code is a C program to calculate the area of a triangle. It includes `<stdio.h>`, defines `main()`, declares `float area, h, l;`, prompts the user for height and length, reads the input, calculates the area, and prints the result. The 'Run' button is highlighted. The 'Output' pane on the right shows the program's execution: it prompts for height and length, receives '32 41', calculates the area as '656.000000', and prints 'area of triangle=656.000000'. A message at the bottom of the output pane states '=== Code Execution Successful ==='.

```
main.c  Run  Output  Clear
1 #include<stdio.h>
2 int main()
3 {
4     float area,h,l;
5     printf("enter height and length of triangle\n");
6     scanf("%f %f", &h, &l);
7     area=(h*l)/2;
8     printf("area of triangle=%f", area);
9     return 0;
10 }
```

enter height and length of triangle
32 41
area of triangle=656.000000
=== Code Execution Successful ===