

Triangle question:

Without functions:

```
#include <stdio.h>
#include <stdlib.h>
#include <math.h>
int main()
{
    double a,b,c;
    printf("enter the values of a,b,c");
    scanf("%lf%lf%lf", &a, &b, &c);
    if ((a+b>c) && (a+c>b) && (b+c>a)){
        double s=(a+b+c)/2;
        double area= sqrt(s*(s-a)*(s-b)*(s-c));
        printf("The area of the triangle is: %lf", area);
    }
    else
        printf("The values entered do not form a triangle");

    return 0;
}
```

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ing: "C:\Program Files\CodeBlocks\cb_console_runner.exe" "C:\Users\LENOVO\Desktop\C

op\CodeBlocks Projects\practice\.

is terminated with status -1073741510 (0 minute(s), 12 second(s))

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With one function:

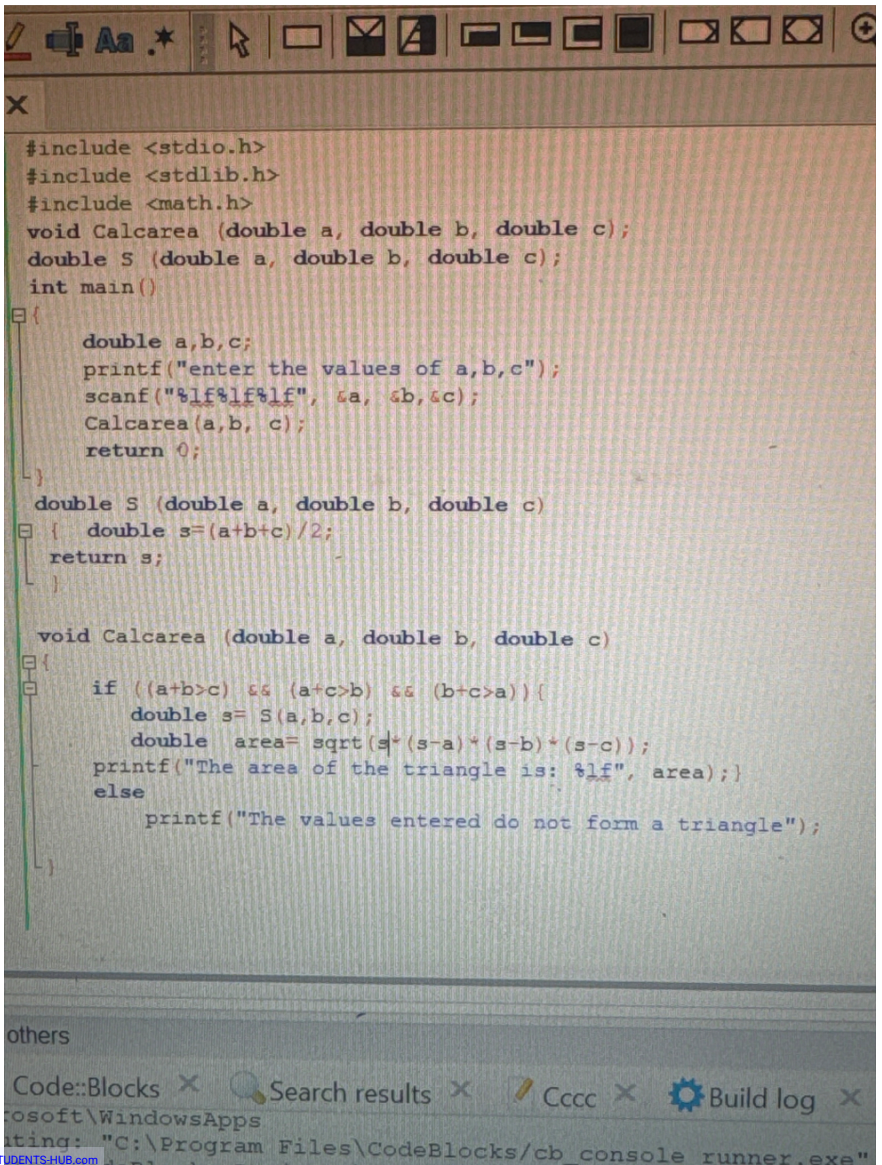
```
main.c
#include <stdio.h>
#include <stdlib.h>
#include <math.h>
void Calcarea (double a, double b, double c);
int main()
{
    double a,b,c;
    printf("enter the values of a,b,c");
    scanf("%lf%lf%lf", &a, &b, &c);
    Calcarea(a,b, c);
    return 0;
}

void Calcarea (double a, double b, double c)
{
    if ((a+b>c) && (a+c>b) && (b+c>a)) {
        double s=(a+b+c)/2;
        double area=sqrt(s*(s-a)*(s-b)*(s-c));
        printf("The area of the triangle is: %lf", area);
    }
    else
        printf("The values entered do not form a triangle");
}

& others
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Executing: "C:\Program Files\CodeBlocks\cb_console_runner.exe" "C:\Users\LENOVO
esktop\CodeBlocks Projects\practice\.)
Process terminated with status -1073741510 (0 minute(s), 9 second(s))

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```


With two functions:



```
#include <stdio.h>
#include <stdlib.h>
#include <math.h>
void Calcarea (double a, double b, double c);
double S (double a, double b, double c);
int main()
{
    double a,b,c;
    printf("enter the values of a,b,c");
    scanf("%lf%lf%lf", &a, &b, &c);
    Calcarea(a,b, c);
    return 0;
}

double S (double a, double b, double c)
{
    double s=(a+b+c)/2;
    return s;
}

void Calcarea (double a, double b, double c)
{
    if ((a+b>c) && (a+c>b) && (b+c>a)) {
        double s= S(a,b,c);
        double area= sqrt(s*(s-a)*(s-b)*(s-c));
        printf("The area of the triangle is: %lf", area);
    }
    else
        printf("The values entered do not form a triangle");
}
```

others

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Path: "C:\Program Files\CodeBlocks/cb_console_runner.exe"

Activity 2: Write a C program which takes three sides a, b and c of a triangle as input and calculates its area if these conditions are satisfied $a+b>c$, $b+c>a$, and $a+c>b$ (Help $a = \sqrt{s(s-a)(s-b)(s-c)}$), where $s = (a+b+c)/2$)