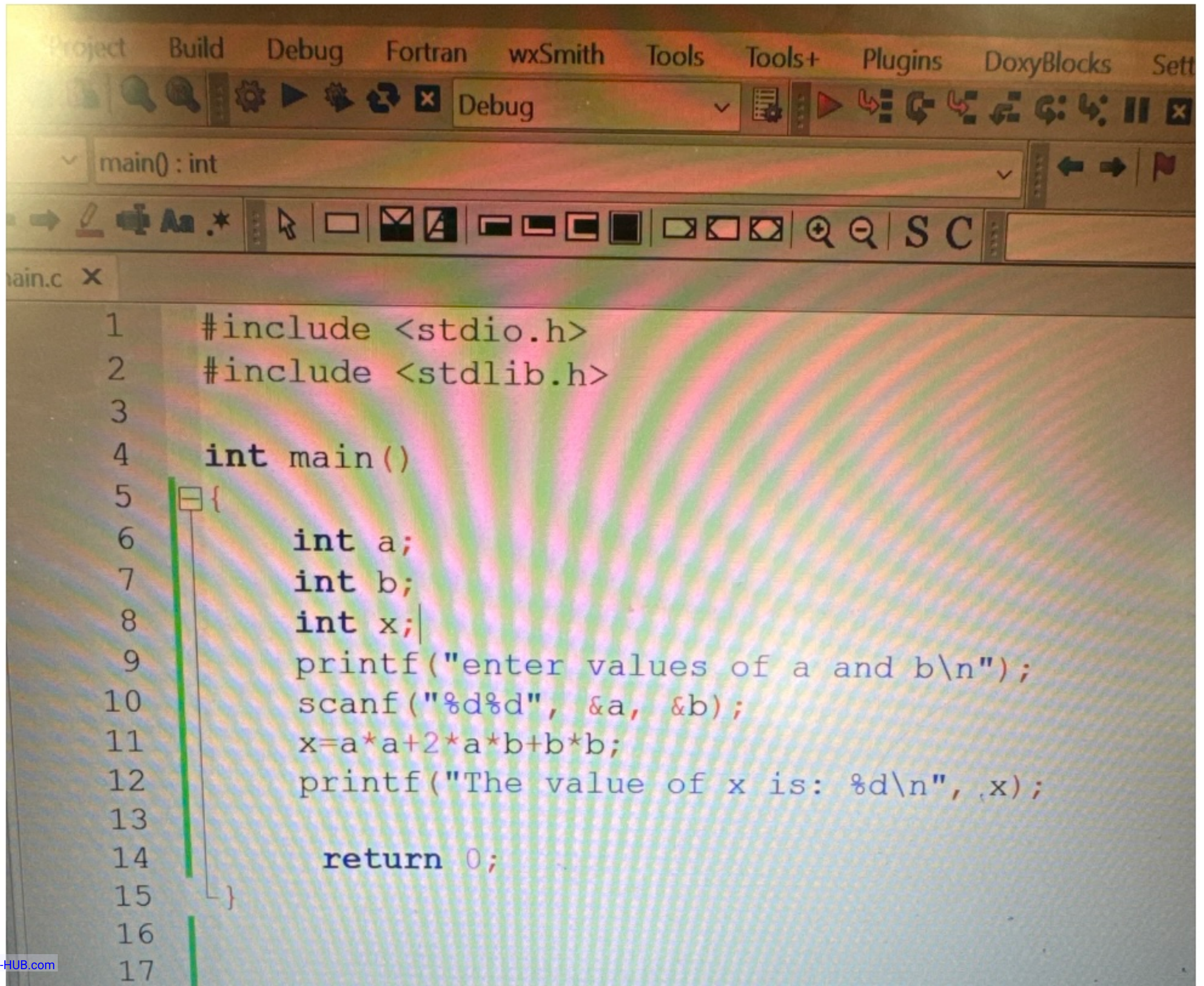


Question two:



The image shows a screenshot of a C code editor. The top menu bar includes Project, Build, Debug, Fortran, wxSmith, Tools, Tools+, Plugins, DoxyBlocks, and Settings. Below the menu is a toolbar with various icons for file operations, execution, and debugging. The current file is named 'main.c'. The code is as follows:

```
1  #include <stdio.h>
2  #include <stdlib.h>
3
4  int main()
5  {
6      int a;
7      int b;
8      int x;
9      printf("enter values of a and b\n");
10     scanf("%d%d", &a, &b);
11     x=a*a+2*a*b+b*b;
12     printf("The value of x is: %d\n", x);
13
14     return 0;
15 }
```

2. Write down C statements to perform the following operations:

i. $x = a^2 + 2ab + b^2$

ii.
$$Z = \frac{4.2(x+y)/z - 0.25x/(y+z)}{(x+y)^2}$$

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```
#include <stdio.h>
#include <stdlib.h>
```

```
int main()
```

```
{
    float z;
    float z;
    int x;
    int y;
    printf("Enter values of x, y, z");
    scanf("%d%d%f", &x, &y, &z);
    float a;
    float b;
    float c;

    a= (4.2*(x+y))/z;
    b= (0.25*x)/(y+z);
    c= (x+y)*(x+y);
    z= (a-b)/c;
    printf("The value of Z: %f", z);
    return 0;
}
```