

Write a program to read the values of coefficients a, b and c of a quadratic equation  $ax^2+bx+c=0$  and find roots of the equation.

```
#include<stdio.h>
#include<conio.h>
#include<math.h>
int main()
{
    float a,b,c,d,root1,root2;
    printf("Enter the value of a,b,c:\t");
    scanf("%f%f%f",&a,&b,&c);
    d=(b*b)-4*a*c;
    if (d>=0)
    {
        root1=(-b+sqrt(d))/(2*a);
        root2=(-b-sqrt(d))/(2*a);
        printf("\nThe root of the equation are %f and %f",root1,root2);

    }
    else
    {
        d=d*(-1);
        root1=sqrt(d)/(2*a);
        printf("The root of the equation are:\n%f+i(%f)",(-b/(2*a)),root1);
        printf("\n%f-i(%f)",(-b/(2*a)),root1);
    }
    return 0;
}
```