```
#include <stdio.h>
#include <conio.h>
#include <math.h>
void main(){
    int a,b,c;
    float D, r1, r2, real, img;
    clrscr();
    printf("Enter the coefficient of the quadratic
        equation: \t");
    scanf("%d %d %d", &a, &b, &c);
    D= (b*b)-(4*a*c);
    if (D>0){
        r1 = (-b+sqrt(D))/(2*a);
        r2 = (-b-sqrt(D))/(2*a);
    printf("The roots are real and distinct
        %.2f and %.2f", r1, r2);
    }
    else if (D==0){
        r1 = -b/(2*a);
        r2 = r1;
    printf("The roots are real and equal %.2f and
        %.2f", r1, r2);
    }
    else {
        real = -b/(2*a);
        img = sqrt(-D)/(2*a);
    printf("The roots are imaginary");
    printf("%.2f+%.2fi and %.2f-%.2fi",
        real, img, real, img);
    }
    getch();
}
```

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Output

Enter the coefficient of the quadratic equation:
1 +2 1
The roots are real and equal -1.00 and -1.00

Enter the coefficient of the quadratic equation:
1 -5 6
The roots are real and distinct 3.00 and 2.00

Enter the coefficient of the quadratic equation:
1 4 5
The roots are imaginary -2.00+1.00i and
-2.00-1.00i