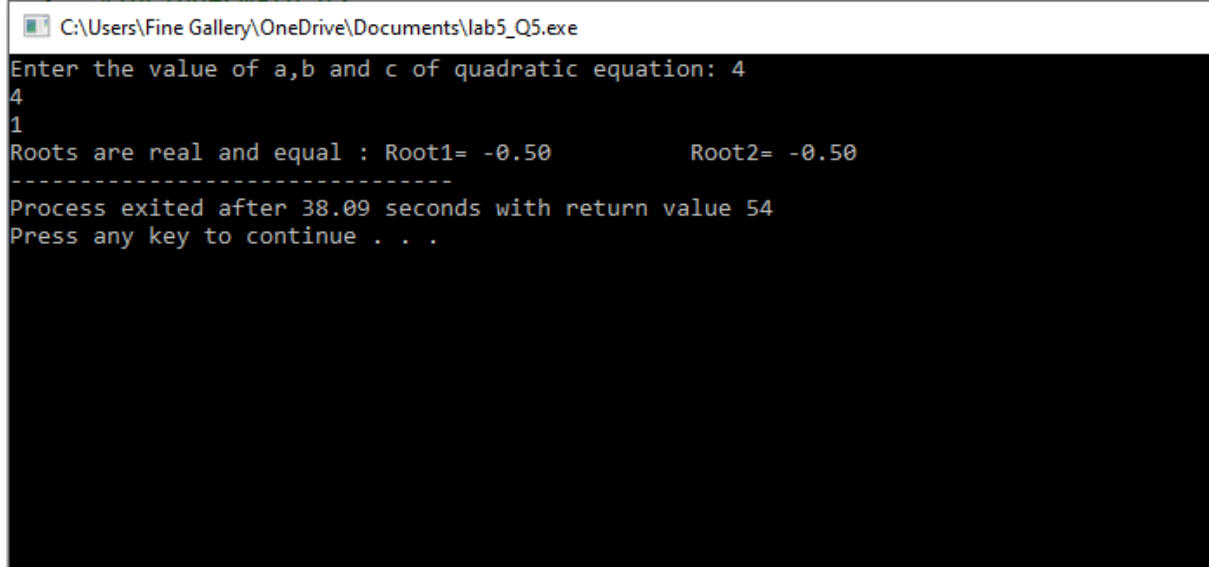


```
#include<stdio.h>
#include<math.h>
main(){
    float a,b,c ,disc,root1,root2;
    printf("Enter the value of a,b and c of quadratic equation: ");
    scanf("%d\n %d\n %d",&a,&b,&c);
    disc=b*b-4*a*c;
    if(disc>0){
        root1=(-b+sqrt(disc))/(2*a);
        root2=(-b-sqrt(disc))/(2*a);
        printf("Roots are real and distinct:Root1= %.2f \t Root2= %.2f",root1, root2);
    }else{
        if(disc==0){
            root1=-b/(2*a);
            root2=-b/(2*a);
            printf("Roots are real and equal : Root1= %.2f \t Root2= %.2f",root1,
root2);
        }
        else
        {
            float realPart=-b/(2*a);
            float imgPart=sqrt(-disc)/(2*a);
            printf("Roots are imaginary: %f+%fi and
%f+%fi",realPart,imgPart,realPart,imgPart);
        }
    }
}
```



```
C:\Users\Fine Gallery\OneDrive\Documents\lab5_Q5.exe
Enter the value of a,b and c of quadratic equation: 4
4
1
Roots are real and equal : Root1= -0.50          Root2= -0.50
-----
Process exited after 38.09 seconds with return value 54
Press any key to continue . . .
```