

```

#include <stdio.h>
#include <math.h>

int main()
{
    float a,b,c,root1,root2,ds,realn,imgn;

    printf("Enter co efficient of a,b,c");
    scanf("%f%f%f",&a,&b,&c);

    ds= (b*b)- (a*a*c);

    if(ds>0)
    {
        root1= (-b+sqrt(ds))/(2*a);
        root2= (-b-sqrt(ds))/(2*a);
        printf("root 1= %f and root 2= %f",root1,root2);
    }
    else if(ds==0)
    {
        root1=root2= -b/(2*a);
        printf("root 1 = root 2 = %f",root1);
    }

    else
    {
        realn= -b/(2*a);
        imgn= sqrt(-ds)/(2*a);
        printf("root 1 = %f and Root 2= %f",root1,root2);
    }
    getch();
    return 0;
}

```

Output:

Enter co efficient of a,b,c

1

2

3

root 1= -0.500000 and root 2= -1.500000