#include<stdio.h>

#include<math.h>

main()

{

double det,real,imaginary,a,b,c,x1,x2;

printf("\nEnter the values of coefficiets a,b and c\n");

scanf("%lf %lf %lf",&a,&b,&c);

det=b\*b-4\*a\*c;

if(det>0)

{

x1=(-1\*b+sqrt(det))/(2\*a);

x2=(-1\*b-sqrt(det))/(2\*a);

printf("\nThe two real roots are %lf and %lf",x1,x2);

}

else if(det==0)

{

x1=-b/(2\*a);

printf("\nThe only root is %lf ",x1);

}

else

{

real=-1\*b/(2\*a);

imaginary=(sqrt(-det))/(2\*a);

printf("\nThe imaginary roots are %lf+%lfi and %lf-%lfi",real,imaginary,real,imaginary);

}

getch();

}

***OUTPUT***

Enter the values of coefficiets a,b and c

1

-5

6

The two real roots are 3.000000 and 2.000000