**package** progg1;

**import** java.util.Scanner;

**public** **class** quadratic {

**public** **static** **void** main(String[] args) {

// **TODO** Auto-generated method stub

**float** a,b,c,d,r1,r2,real,imag;

System.***out***.println("enytr the value of a , b , c");

Scanner sc= **new** Scanner(System.***in***);

a=sc.nextFloat();

b=sc.nextFloat();

c=sc.nextFloat();

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

**if**(d>0) {

System.***out***.println("roots are real and distinct") ;

r1 = (**float**) ((-b+ Math.*sqrt*(d))/(2\*a)) ;

r2=(**float**) ((-b- Math.*sqrt*(d))/(2\*a)) ;

System.***out***.println("r1 is "+r1);

System.***out***.println("r2 is "+r2);

}

**else** **if**(d==0) {

System.***out***.println("roots are real and equal");

r1=(**float**)((-b)/(2\*a));

r2=(**float**)((-b)/(2\*a));

System.***out***.println("r1 is "+r1);

System.***out***.println("r2 is "+r2);

}

**else** {

System.***out***.println("roots are imaginary");

real = -b/2\*a ;

imag= (**float**) (Math.*sqrt*(-d)/(2\*a)) ;

System.***out***.println("r1 is "+real+"+i"+imag);

System.***out***.println("r1 is "+real+"-i"+imag);

}

}

}