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LAB 1

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Quadratic equation.

```
import java.util.Scanner;

public class quadEquation{

static double findDiscriminante(float a, float b, float c){

double D = b*b-(4*a*c);
return D;
}

static void checkD(float a, float b, double D){
 if(a==0)
System.out.println("Not a valid quadratic equation");

 else if (D<0)
{ System.out.println("The roots are imaginary");
 System.out.println("The imaginary roots are"+(-b/2*a)+
"+i"+(Math.sqrt(-D)/(2*a))+"and"+(-b/2*a)+"-i"
                                  +(Math.sqrt(-D)/(2*a)));

}

else
{ double r1 = (-b+Math.sqrt(D))/(2*a);
 double r2 = (-b-Math.sqrt(D))/(2*a);
 System.out.println("The roots are"+r1+"and"+r2);
}
}
```

Sulekha

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

Scanner s = new Scanner (System.in);

System.out.println ("The equation is of the form ax^2+bx+c.");
System.out.println ("Enter the value of a, b and c respectively.");

float a = s.nextFloat ();
float b = s.nextFloat ();
float c = s.nextFloat ();

double D = findDiscriminate (a, b, c);
checkD (a, b, D);
}
}
```