Program to find the roots of a quadratic equation

```
import java.lang.Math;
class quad
{
  public static void main(String ar[])

  { float a,b,c,d;
    double d1,r1,r2;

    a=Float.valueOf(ar[0]).floatValue();
    b=Float.valueOf(ar[1]).floatValue();
    c=Float.valueOf(ar[2]).floatValue();

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

    if(d<0)
         System.out.println("NO real roots");
    else if(d==0)
         { System.out.println("Equal roots");
          r1=-b/(2*a);
         System.out.println("Roots are: "+ r1 + ","+ r1);
         }
    else
         { System.out.println("Real roots");
           d1=Math.sqrt(d);
         r1=-b+d1/(2*a);
```

```
        r2=-b-d1/(2*a);
        System.out.println("Roots are: "+ r1 + ","+ r2);
        }
    }
}
```

Output: