Source code:

```
import java.util.Scanner;
class Quad{
public static void main(String xx[]){
  int a,b,c;
Scanner s=new Scanner(System.in);
  System.out.println("Enter the coefficients a,b,c");
  a=s.nextInt();
  b=s.nextInt();
  c=s.nextInt();
  double des=(b*b)-(4*a*c);
   double root1, root2;
  if(a==0){
   System.out.println("The equation is not quadratic\n");
else if(des>0){
     root1=-b+Math.sqrt(des);
     root2=-b-Math.sqrt(des);
    System.out.println("The roots are real and distinct\nroot 1: "+root1+"\nroot 2: "+root2); \\
else if(des==0){
     root1=root2=-b/(2*a);
     System.out.println("The roots are real and equal\nRoot 1: "+root1+"\nroot 2: "+root2);
else {
     root1=-b/(2*a);
     root2=Math.sqrt(Math.abs(des));
    System.out.println("The roots are imaginary\nRoot1: "+root1+"+i"+root2+"\nRoot 2: "+root1+"-i"+root2); \\
    s.close();
      }
 }
}
```

OUTPUT:

```
PS C:\Users\Admin\Desktop\1BM21CS019> javac Quad.javaa error: Class names, 'Quad.javaa', are only accepted if annotation processing is explicitly requested 1 error
PS C:\Users\Admin\Desktop\1BM21CS019> javac Quad.java
PS C:\Users\Admin\Desktop\1BM21CS019> java Quad
Enter the coefficients a,b,c
The equation is not quadratic
PS C:\Users\Admin\Desktop\1BM21CS019> java Quad
Enter the coefficients a,b,c
1 2 3
The roots are imaginary
Root1 : -1.0+i2.8284271247461903
Root 2: -1.0-i2.8284271247461903
PS C:\Users\Admin\Desktop\1BM21CS019> java Quad
Enter the coefficients a,b,c
1 4 1
The roots are real and distinct
root 1: -0.5358983848622456
root 2: -7.464101615137754
PS C:\Users\Admin\Desktop\1BM21CS019> java Quad
Enter the coefficients a,b,c
1 2 1
The roots are real and equal
Root 1: -1.0
root 2: -1.0
PS C:\Users\Admin\Desktop\1BM21CS019> |
```