```
import java.util.Scanner;
    class Quadratic
{
   int a, b, c;
   double r1,r2,d;
   void getd()
   {
     Scanner s=new Scanner(System.in);
     System.out.println("Enter the coefficients of a,b,c");
     a=s.nextInt();
     b=s.nextInt();
     c=s.nextInt();
   }
void compute()
{
  while(a==0)
  {
    System.out.println("Not a qudratic equation");
    System.out.println("Enter a non zero value for a:");
    Scanner s=new Scanner(System.in);
    a=s.nextInt();
 }
    d=b*b-4*a*c;
    if(d==0)
     {
      r1=(-b)/(2*a);
      System.out.println("Roots are real and equal");
      System.out.println("Root1=Root2="+r1);
 }
```

```
   else if(d>0)
   {
    r1=((-b)+(Math.sqrt(d)))/(double)(2*a);
    r2=((-b)-(Math.sqrt(d)))/(double)(2*a);
    System.out.println("Roots are real and distinct");
    System.out.println("Root1="+r1+"Root2=" +r2);
}
    else if(d<0)
{
    System.out.println("Roots are imaginary");
    r1=(-b)/(2*a);
    r2=Math.sqrt(-d)/(2*a);
    System.out.println("Root1="+r1+"+i"+r2);
    System.out.println("Root1="+r1+"-i"+r2);
}
}
}
class QuadraticMain
{
   public static void main(String args[])
{
   Quadratic q=new Quadratic();
   q.getd();
   q.compute();
}
}
```