```
import java.util.Scanner;
public class Quadratic
       public static void main(String args[])
               double a,b,c,D;
               double r1.r2:
              Scanner in = new Scanner(System.in);
              System.out.println("Enter a,b and c of the quadratic equation a(x)^2+b(x)
+c=0:");
               a = in.nextDouble();
              b = in.nextDouble();
              c = in.nextDouble();
              System.out.println();
               System.out.println("Input Equation: "+a+"(x)^2 + "+b+"(x) + "+c+" = 0"):
               System.out.println();
              D = (b*b)-(4*a*c);
              if(D>0)
              {
                      System.out.println("Roots are real and unequal since Discriminant =
"+D);
                      r1 = (-b + Math.sqrt(D))/(2*a);
                      r2 = (-b - Math.sqrt(D))/(2*a);
                      System.out.println();
                      System.out.println("Roots of the quadratic equation are "+r1+" and
"+r2);
              }
              else if(D==0)
              {
                      System.out.println("Roots are real and equal since Discriminant =
"+D);
                      r1 = r2 = (-b)/(2*a);
                      System.out.println();
                      System.out.println("Roots of the quadratic equation are "+r1+" and
"+r2);
              }
              else
              {
                      System.out.println();
                      System.out.println("Roots are unreal since Discriminant = "+D);
              }
```

}

}