```
OJJ LAB
                                      Ning thoujans
   Quadratic Equation
  import java. util. *;
  class Quadratic Equation
   public static void main (String[] curgs)
    Scanner sc=new Scanner (Systew.in);
    System.out.println ("Cluadratic Equation of
                   form ani2+bn+c),
    System. out. println ("enter the values of a, blic
                     respectfuly");
double fort a = Sc. next Int();
double out b = sc. next Int();
double but C = SC. next Int();
      while(a!=0)
dable float D= (6*6)-(4*a*c);
     System out print In ("the
       if (D==0)
double float x = (6+6)/(2+a);
       System. Gut. print lu (" the roots are real, equal
                             and is equal to "+n);
       break;
```

Darshau

```
else if (D>0)
                           Math.sgrt(D)
dobtificat na = (-b+(b*b-(1*a*c))/(2*a);

Muth, sqxt(D)

dobtificat nb = (-b-(b*b-(1/2))/(2*a);
      System. out. println ("the roots are real, unequal
                               and are equal to "+na+"" \"
                                + 26);
      break;
      else if (D<0)
       Systeen. out. printler ("the roots are imaginary");
       bruch ;
```

```
File Edit Format View Help
import java.util.*;
class QuadraticEquation
public static void main(String[] args)
                                                                                     Colored Colore
 Scanner sc=new Scanner (System.in);
System.out.println("Quadratic Equation of form ax^2+bx+c");
System.out.println("enter the values of a, b & c respectively");
 double a= sc.nextDouble();
 double b= sc.nextDouble();
 double c= sc.nextDouble();
 while(a!=0)
 {
 double D= (b*b)-(4*a*c);
 if(D==0)
 {
  double x=(-1*b)/(2*a);
 System.out.println("the roots are real, equal and are equal to "+ x);
  break;
  else if(D>0)
  double xa=(-1*b+Math.sqrt(D))/(2*a);
  double xb=(-1*b-Math.sqrt(D))/(2*a);
  System.out.println("the roots are real, unequal and are equal to "+ xa +" & "+ xb);
   break;
   else if(D<0)
   System.out.println("the roots are imaginary");
   break;
```