```
import java.util.Scanner;
class oop1
{
     public static void main(String args[])
     {
          Scanner sc=new Scanner(System.in);
          double a,b,c,r1,r2,d;
          System.out.println("Enter the values of a,b,c");
          a=sc.nextDouble();
          b=sc.nextDouble();
          c=sc.nextDouble();
          d=(b*b)-(4*a*c);
          if(d<0)
               System.out.println("No real roots for the given quadratic equation");
          else if(d>=0)
          {
               r1=(-b+(Math.sqrt(d)))/(2*a);
               r2=(-b-(Math.sqrt(d)))/(2*a);
               if(d==0)
               {
                    System.out.println("Roots are real and equal");
                    System.out.printf("The roots are: %.2f and %.2f",r1,r2);
               }
               else
               {
                    System.out.println("Roots are real and unequal");
                    System.out.printf("The roots are: %.2f and %.2f",r1,r2);
               }
          }
```

```
}
```

}

```
C:\Users\Adithi\Desktop\java_prgs>javac oop1.java
C:\Users\Adithi\Desktop\java_prgs>java oop1
Enter the values of a,b,c
1
-6
5
Roots are real and unequal
The roots are: 5.00 and 1.00
C:\Users\Adithi\Desktop\java_prgs>java oop1
Enter the values of a,b,c
1
4
5
No real roots for the given quadratic equation
C:\Users\Adithi\Desktop\java_prgs>java oop1
Enter the values of a,b,c
9
-6
1
Roots are real and equal
The roots are: 0.33 and 0.33
C:\Users\Adithi\Desktop\java_prgs>
```