```java
import java.util.*;
import java.lang.*;
public class quadratic{
public static void main(String[] args){
double a,b,c,r1=0,r2=0;
System.out.println("Enter coefficients a,b and c of quadratic equation:");
Scanner in = new Scanner(System.in);
a=in.nextDouble();
b=in.nextDouble();
c=in.nextDouble();
double d = (b*b)-(4*a*c);
if(d == 0)
{
System.out.println("Two equal real roots");
r1 = -b/2*a;
r2 = r1;
}
else if(d > 0)
{
System.out.println("Two distinct real roots");
r1 = -b + Math.sqrt(d)/2*a;
r2 = -b - Math.sqrt(d)/2*a;
}
else
{
System.out.print("No real roots");
System.exit(0);
}
System.out.println("Roots of quadratic equation are r1 ="+r1+" and r2 = "+r2);
}
}
```

CommandLine Arguments

JDK 11.0.4

Interactive

Execute

Result

compiled and executed in 22.496 sec(s)

```
Enter coefficients a,b and c of quadratic equation:
3
4
1
Two distinct real roots
Roots of quadratic equation are r1 =-1.0 and r2 = -7.0
```