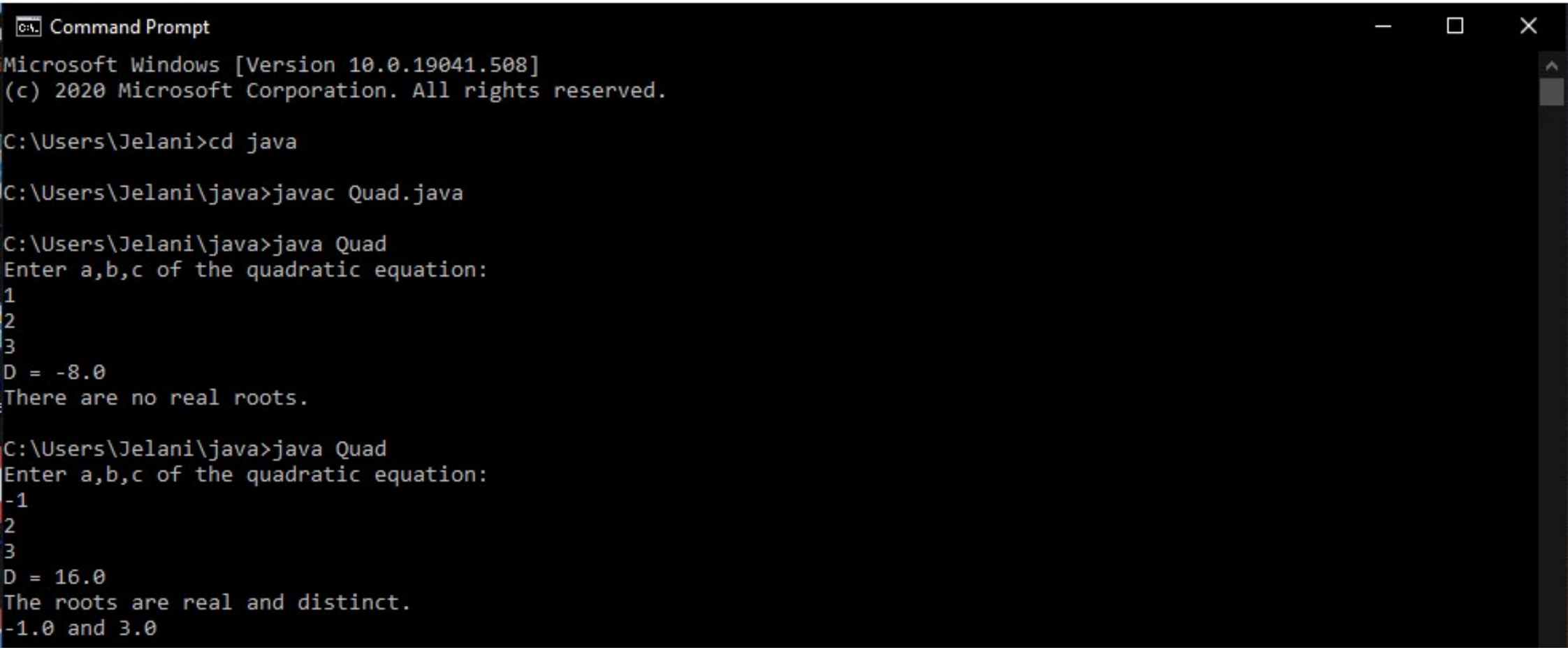
Quad.java - Notepad

File Edit Format View Help

```
import java.util.*;
import java.lang.*;

public class Quad
{
  public static void main(String args [])
  {
    System.out.println("Enter a,b,c of the quadratic equation:");
    Scanner scan= new Scanner (System.in);
    double a= scan.nextDouble();
    double b= scan.nextDouble();
    double c= scan.nextDouble();
    double d= (b*b)-(4*a*c);
    System.out.println("D = "+d);
    if (d==0)
    {
       double r1=-b/(2*a);
       System.out.println("the roots are real and distinct.");
       System.out.println(r1);
    }
    else if(d>0)
    {
       double r1=(-b+Math.sqrt (d))/(2*a);
       double r2=(-b-Math.sqrt (d))/(2*a);
       System.out.println("The roots are real and distinct.");
       System.out.println(r1+" and "+r2);
    }
    else
    {
       System.out.println("There are no real roots.");
    }
  }
}
```

Ln 1, Col 1 | 100% | Windows (CRLF) | UTF-8


Command Prompt
Microsoft Windows [Version 10.0.19041.508]
(c) 2020 Microsoft Corporation. All rights reserved.
C:\Users\Jelani>cd java
C:\Users\Jelani\java>javac Quad.java
C:\Users\Jelani\java>java Quad
Enter a,b,c of the quadratic equation:
1
2
3
D = -8.0
There are no real roots.
C:\Users\Jelani\java>java Quad
Enter a,b,c of the quadratic equation:
-1
2
3
D = 16.0
The roots are real and distinct.
-1.0 and 3.0