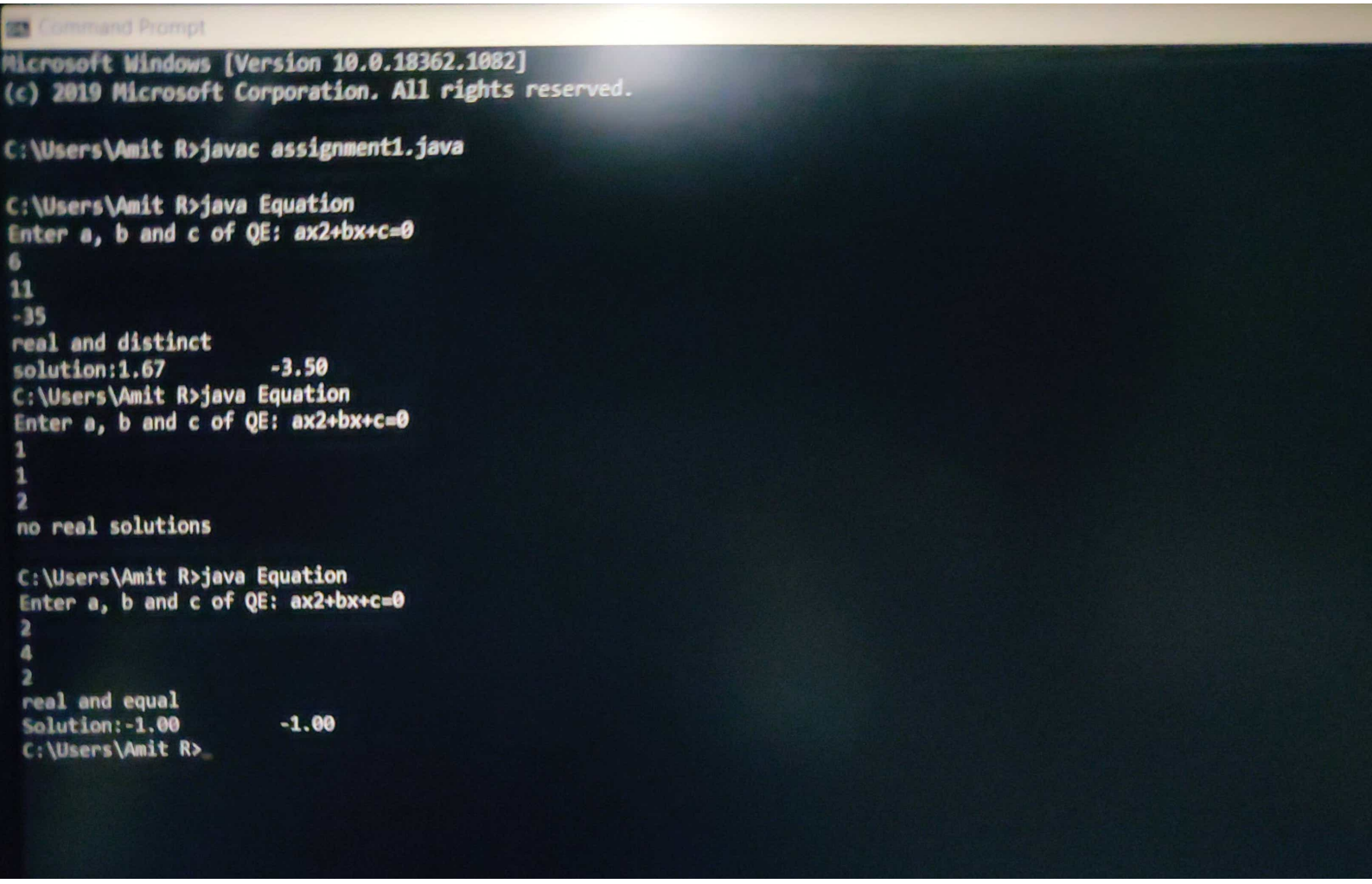
File Edit Format View Help

```
import java.util.Scanner;
class Equation
{
        public static void main(String args[])
        {
                int a,b,c;
                double d;
                double x1=0.0,x2=0.0;
                Scanner sc =new Scanner(System.in);
                System.out.println("Enter a, b and c of QE: ax2+bx+c=0");
                a=sc.nextInt();
                b=sc.nextInt();
                c=sc.nextInt();
                d=b*b-4*a*c;
                x1=(-b+Math.sqrt(d))/(2*a);
                x2=(-b-Math.sqrt(d))/(2*a);
                if(d>0)
                {
                        System.out.println("real and distinct   ");
                        System.out.printf("solution:%.2f",x1);
                        System.out.printf("         %.2f",x2);
                }
                if(d==0)
                {
                        x1=x2=-b/(2*a);
                        System.out.println("real and equal  ");
                        System.out.printf("Solution:%.2f",x1);
                        System.out.printf("         %.2f",x2);
                }
                if(d<0)
                System.out.println("no real solutions");
        }
}
```


Command Prompt
Microsoft Windows [Version 10.0.18362.1082]
(c) 2019 Microsoft Corporation. All rights reserved.
C:\Users\Amit R>javac assignment1.java
C:\Users\Amit R>java Equation
Enter a, b and c of QE: ax2+bx+c=0
6
11
-35
real and distinct
solution:1.67 -3.50
C:\Users\Amit R>java Equation
Enter a, b and c of QE: ax2+bx+c=0
1
1
2
no real solutions
C:\Users\Amit R>java Equation
Enter a, b and c of QE: ax2+bx+c=0
2
4
2
real and equal
Solution:-1.00 -1.00
C:\Users\Amit R>