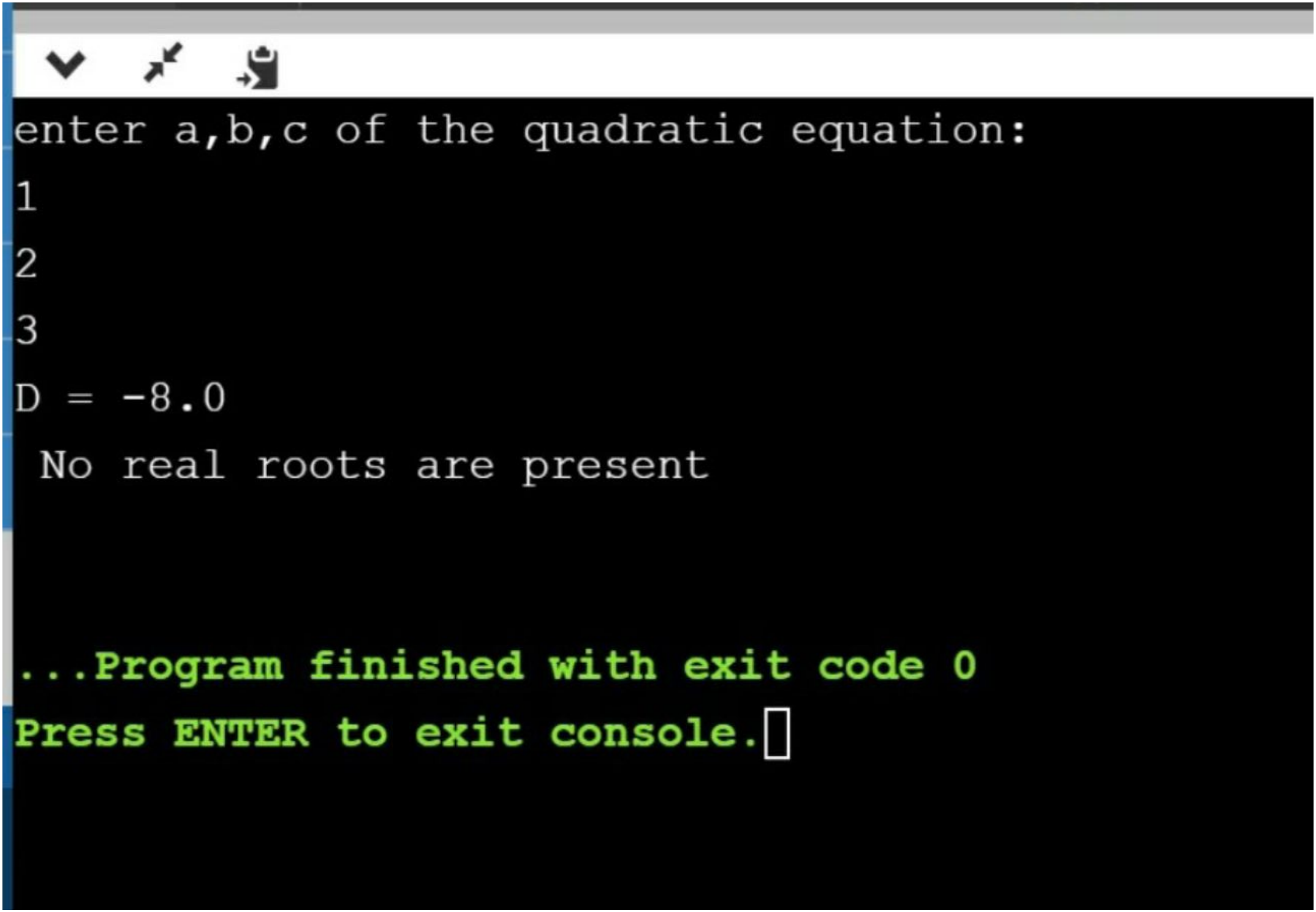
JAVA

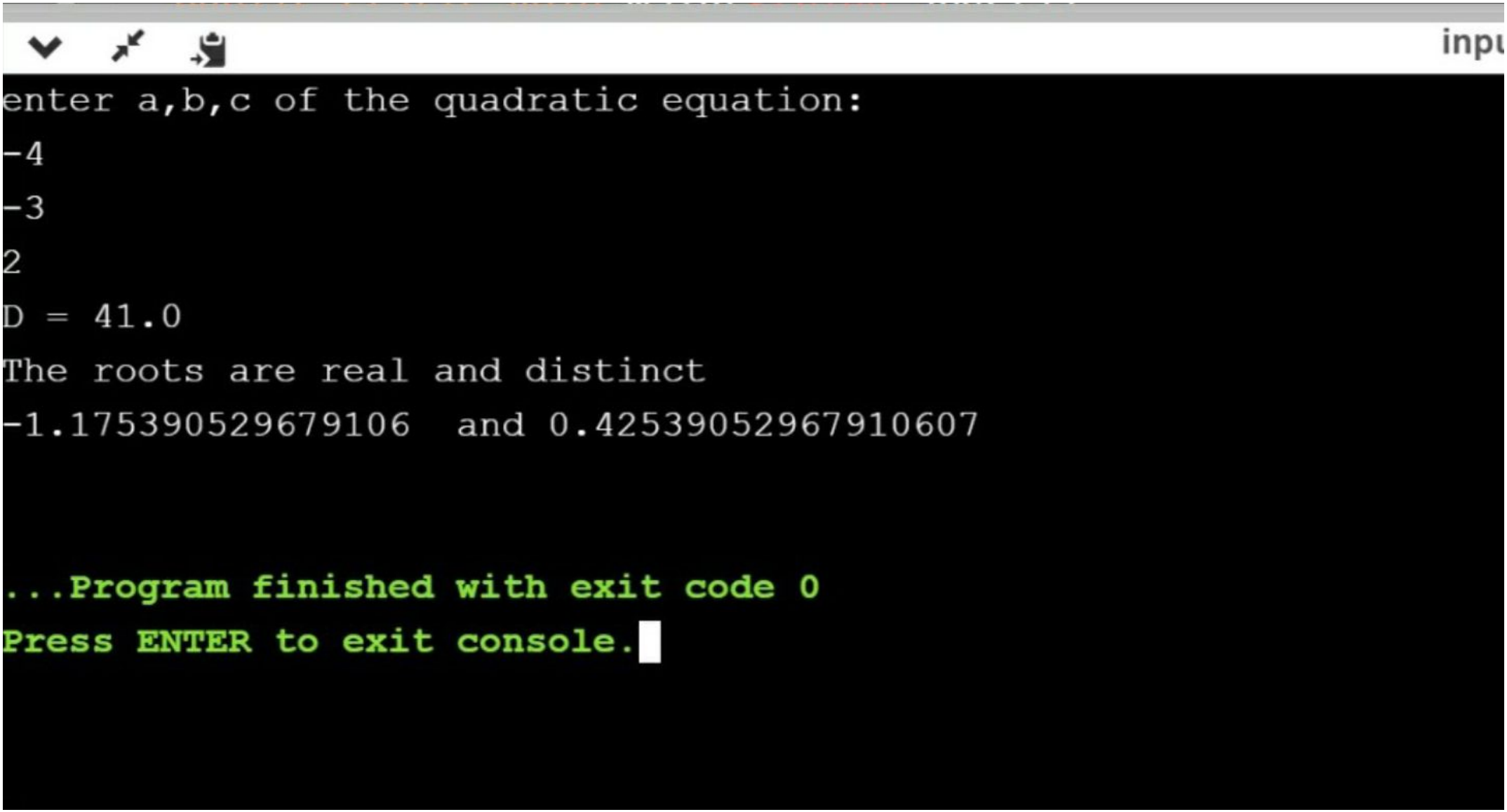
LAB-1

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

Public class Main
{
 Public Stac void main (String args[])
 {
  System.out.println("Enter the a,b,c
                      quadratic equation:");
  Syster Scan = new Scanner (System.in);
  double a = Scan.nextDouble();
  double b = Scan.nextDouble ();
  double c = Scan.next Double ();
   double d = (b*b) - (4*a*c);
  System.out.println ("D = " +d );
  If (d==0)
  { double r1 = b/(2*a);
  System.out.println("roots are real and distid
   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("Roots are real and d
System.out.println(r1 +"and "+r2);
}
else
{
  System.out.println("No real roots are
                      present");
}
}
```


enter a,b,c of the quadratic equation:
1
2
3
D = -8.0
No real roots are present
...Program finished with exit code 0
Press ENTER to exit console.


inpu
enter a,b,c of the quadratic equation:
-4
-3
2
D = 41.0
The roots are real and distinct
-1.175390529679106 and 0.42539052967910607
...Program finished with exit code 0
Press ENTER to exit console.