Develop a Java program that prints all real solution to the quadratic equation ax2+bx+c=0. Read a,b,c and use the quadratic formula. If the discriminant b2 -4ac is negative ,display a message starting that there is no real solution

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Quadrate Equation
import java, util. Scanner;
infort java. long. Mack:
Public class Quadratic Equation {
public static void main ( String args [ ]) {
 float a, b, c, d:
 double root 1, root 2:
Scanner 8 = new & Scanner (System.in),
System. out. print In ("Enter coefficients ");
 a = 8. next float ():
  b = 8. next flood ();
d = (6 + 6 - (4 + a + c)):
  if (a = = 0) {
  System. out. print [" Not a quadratic equation"):
  else : f (d>0) {
   root 1: (-b + math. &grt(d)) / (4+a+c):
  root & = (-b - math. &q + (d)) / (4 a c):
   System. out . print In ("Real and distinct roots as
                             : " + root 1 + " and " + root 2);
 else : f (d < 0) {
  root 1 = - b / (2 a); - 0 1- 00 1000 1000
  root & = d/(x*a);
  System. out. print In (" Real and distinct roots are:
                         " + 9,001 1+" and "+ root 2);
 clse if (d < 0) f
  roof 1 = -b/(R*a):
  root & = d/ (x+a);
 System. out. print In ("Imaginary roofs and distinct are: "+roof + "+ i"+ roof R+" and
```

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" froot [ +" - i" + root 2);
                              white to be the season
     else : f (d = = 0) {
                              per inva do-g made
     roof 1 = root 2 = - b / (R+a);
     System. out. println ("Real Roots are: "+root 1+" and; roots).
                             teres took I look alded
               con s man & Scommen ( aby elem, in).
Output
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i)Enter the co-efficient a. 1, -4, 6

Imaginary roots and distinct are R. O+1-4.0 and R.O-1-4.0 (water point of a guadrate a quadrate and maken)

2) Enter the co-efficient 0, 5, 6 Not a quadratic equation

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- 3) Enter the co-efficient 1, 10, 5 Real and distinct roots are: -0.062786404 and -0.94721359
- 4) Enter the co-efficient R. 4. R. Real roots are: -1.0 and -1.0

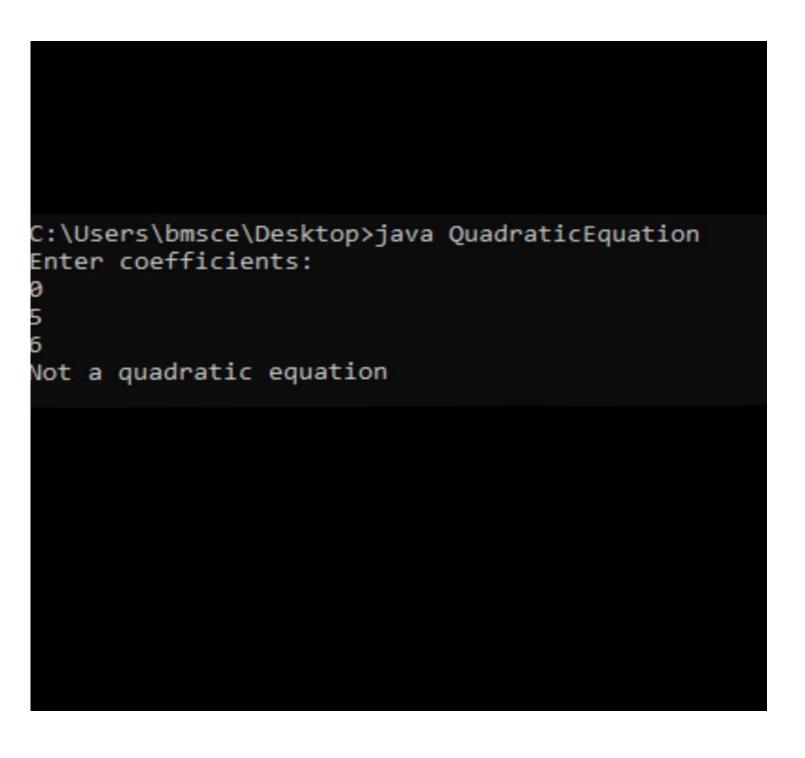
else: + (d = c) }

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(60 ta) \ d - 1- 1- 100 1 (6/3) 1 6 3 100

to the line stone was point " of the on the water

lamb + 2 +00 + + 10 + +00 + 10 2 800



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C:\Users\bmsce\Desktop>java QuadraticEquation
Enter coefficients:
1
-4
6
Imaginary roots and distinct are:2.0+i-4.0 and 2.0-i-4.0
```

C:\Users\bmsce\Desktop>java QuadraticEquation Enter coefficients: 2 4 2 Real roots are:-1.0and-1.0

```
C:\Users\bmsce\Desktop>java QuadraticEquation
Enter coefficients:
1
-4
8
Imaginary roots and distinct are:2.0+i-8.0 and 2.0-i-8.0
```