The quadratic equation a set bat points and seal solutions to Diedratic Equation formula. If he discomment to 2 - une formula solutions. imposit gava util. Scanner; impart. Java with Scorner impact gava large Moth public class guide atic Equation & public state void main (String arget?) } float a,b,c,d; Scanner 8 - new Scanner (System in); thanking a told 3ystem. put. psentln ("Inter coefficients:"); a = Someat & Float (); b= s. next (Pleater) C=S. nuntfloat () d=(b*b-(4*a*c)); Consilling all j(a==0) { System. out paint in ("Not a quadratic equation"); else of (d>0) {

out1 = (-b+Meth. 2grt (d))/ (4) ar c); swort & = (- b- Math . sqrt(d))/ (4 = a e c); System. out. pount in ("Imaginary scots and distinct are:
" + scot fa" +1" "+ scot 214" and" + scot 1+ "-7" + most 2); ale 1 (d==0) 2

000t 1 = 000ta - b / (2+a); System. out. print la C'Real. scott are: "+ 200ts + + scoot 2); output: & Enter the coefficients of girls) when blow sides 5 6 Not a quadratic equation (6-1000.1) 2) Enter the coefficients : 201/200 set is ") altring Real and distinct scots one -0.05278 and p-(4*a*c)); 3) Enter the coefficient. in out paintly (" Note a quadratur equation"); 4-Imaginary occots and distinct are 2.011-4.0 u) ruter the coefficients ((6) to pe. alaysed. Real poot are: -1.0 and, -1.0

Outputs:

```
C:\Users\bmsce\Desktop>java QuadraticEquation
Enter coefficients:
0
5
6
Not a quadratic equation
```

```
C:\Users\bmsce\Desktop>java QuadraticEquation
Enter coefficients:
1
10
5
Real and distinct roots are:-0.05278640450004204 and -0.947213595499958
```

```
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
```