import java util scarner;

class Quadratic &

public static void main (string [7 augs) &

float a, b, c;

Scanner trake Infut : new Scanner (bystem in); System out println ("Serber the values of a, b, c

a : take Infut . nest . Float ():,

b= textee Infut . next Float ();

C = takeSerfrut. rext Float ();

double calc Discriminant = Moth. pow (b, s)
- (4*a*e);

double eost 1 = (-6 + Math sgot (colc Discuminat
)) / (2+0);

double root 2 = (-b - Math. sget (calc Discernina))/(1+a);

of (colc Descriminant 70) &

System. out. printth ("The roots are real and distinct:" + root 1 + ", " + root 1);

else if (calc Descriminant == 0) {

System. out. println ("The roots are real

and equal: "+root!);

solutions to this equation ");

```
pranavsastry@Pranavs-iMac:~/Documents/00J-Lab/Lab 1$ runj Quadratic
Enter the values of a, b, c:
463
There are no real solutions to this equation
pranavsastry@Pranavs-iMac:~/Documents/003-Lab/Lab 1$ runj Quadratic
Enter the values of a, b, c:
1 -5 6
The roots are real and distinct: 3.0, 2.0
```

pranavsastry@Pranavs-iMac:~/Documents/00J-Lab/Lab 1\$