1. Develop a Java program that prints all real solutions to the quadratic equation $ax^2+bx+c=0$. Read in a, b, c and use the quadratic formula. If the discriminate b^2-4ac is negative, display a message starting that there are no real solutions.

→
```
import java.util.Scanner;
Public class Quadratic {
    Public static void main (String args[]) {
     int a,b,c;
     Scanner sx = new Scanner (System.in);
     System.out.print("Enter the value of a :");
     a = sx.nextInt();
     System.out.print("enter the value of b :");
     b = sx.nextInt();
     System.out.print("enter the value of c :");
     c = sx.nextInt();
     sx.close();
     double discriminant = b*b-4*a*c;
     if (discriminant <0) {
          System.out.println("there are no real
     }          solutions...!");
     else {
     double quad = (-b + Math.Sqrt(discriminant))
                   /(2*a);
     double quad1 = (-b - Math.Sqrt(discriminant))
                   /(2*a);
     System.out.println("In Root1 : "+quad+
                   "In Root2 : "+quad1);
     }
    }
}
```

o/p : odd

```
if (discriminant == 0)
{
    System.out.println("root : " + (-b / (2.0
                                    * a)));
}
```

-> enter : a : 2
enter : b : 3
enter : c : 4
no real solutions ... !

-> enter : a : 3
enter b : -7
enter c : -3
root 1 : 2.70...
root 2 : -0.36...