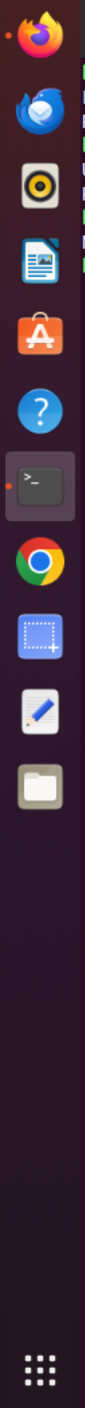
```
public class Equation{

        private double root1;
        private double root2;
        private int a;
        private int b;
        private int c;
        private int determinant;
        private boolean real;

        public Equation (int a, int b, int c){

                this.a=a;
                this.b=b;
                this.c=c;
                this.determinant=b*b-4*a*c;
                real=determinant>=0;
        }

        public void setRoots(){
                if (determinant>0){
                        System.out.println("Unequal Roots");
                        root1=(-b+Math.sqrt(determinant))/(2*a);
                        root2=(-b-Math.sqrt(determinant))/(2*a);
                }

                else if (determinant==0){
                        System.out.println("Equal Roots");
                        root1=(float)(-b)/(2*a);
                        root2=root1;
                }

                else{
                        System.out.println("No Real Roots");
                }
        }

        public double getRoot1(){
                return root1;
        }

        public double getRoot2(){
                return root2;
        }

        public boolean isReal(){
                return real;
        }

}

class Main{
        public static void main(String args[]){
                Equation e=new Equation(Integer.parseInt(args[0]),Integer.parseInt(args[1])
,Integer.parseInt(args[2]));

                e.setRoots();
                if (e.isReal())
                        System.out.println("Roots are:"+e.getRoot1()+" "+e.getRoot2());

        }
}
```




```
bmsce@bmsce-OptiPlex-3060:~/1BM23CS313/1BM23CS313-Java/Lab-Prg-1$ java Main 1 -2 1
Equal Roots
Roots are:1.0 1.0
bmsce@bmsce-OptiPlex-3060:~/1BM23CS313/1BM23CS313-Java/Lab-Prg-1$ java Main 1 3 1
Unequal Roots
Roots are:-0.3819660112501051 -2.618033988749895
bmsce@bmsce-OptiPlex-3060:~/1BM23CS313/1BM23CS313-Java/Lab-Prg-1$ java Main 1 1 1
No Real Roots
bmsce@bmsce-OptiPlex-3060:~/1BM23CS313/1BM23CS313-Java/Lab-Prg-1$
```