9.10.20

Lab1 Program

```
import java.util.Scanner;
class quadratic
{
    public static void main(String args[]){
        double a,b,c,disc;
        double r1,r2;
        Scanner inp = new Scanner(System.in);
        System.out.println("Enter a value for a,b,c:");
        a = inp.nextDouble();
        b = inp.nextDouble();
        c = inp.nextDouble();
        disc = ((b*b) - (4*a*c));
        if (disc>0){

    System.out.println("roots are real");
        r1 = (-b + Math.sqrt(disc))/(2*a);
        r2 = (-b - Math.sqrt(disc))/(2*a);
        System.out.println("r1"=r1+" r2=" + r2);
          }
    else if (disc==0){
        System.out.println("roots are real and equal");
        r1 = r2 = -b/(2*a);
            }
    else {
        System.out.println("real roots dont exist");
    }
  }
}
```