Program 1

```
import java.util.*;
class quadratic
public static void main(String args[])
Scanner in =new Scanner(System.in);
double a, b, c;
double R1, R2;
double D;
System.out.println("Enter the value of a");
a=in.nextInt();
System.out.println("Enter the value of b");
b=in.nextInt();
System.out.println("Enter the value of c");
c=in.nextInt();
D=b*b-(4*a*c);
if(D>0)
System.out.println("Roots are Real and Unequal");
R1=(-b+Math.pow(D, 0.5))/(2*a);
R2=(-b-Math.pow(D, 0.5))/(2*a);
System.out.println("Roots are ="+R1+","+R2);
else if (D==0)
System.out.println("Roots are Real and Equal");
R1=-b/(2*a);
R2=R1;
System.out.println("Root is="+R1);
}
else
System.out.println("The Equation has no real roots");
}
}
```