JAVA LAB PROGRAM 1

import java.util.\*

class Main {

public static void main(String[] args) {

double a,b,c,d,roots,root1,root2;

Scanner input = new Scanner(System.in);

System.out.print("Enter value of a: ");

a =input.nextDouble();

System.out.print("Enter value of b: ");

b = input.nextDouble();

System.out.print("Enter value c: ");

c = input.nextDouble();

d = b \* b- 4 \* a \*c;

System.out.println("Discriminant is : " + d);

if (d < 0) {

System.out.println("No real solution");

}

else if (d == 0) {

roots =-b / (2 \* a);

System.out.println("Roots are equal, root 1=root2=" + roots);

}

else {

root1 = ((-b) + (Math.sqrt(d)))/(double)(2\*a);

root2 = ((-b)- (Math.sqrt(d)))/(double)(2\*a);

System.out.println("Root 1 is: " + root1);

System.out.println("Root 2 is: " + root2);

}

}

}

OUTPUT

