```
import java.util.Scanner;
class QuadraticEquation {
 public static void main(String[] args) {
    Scanner sc= new Scanner(System.in);
    System.out.print("Enter the Coefficient. of a:");
    int a= sc.nextInt();
    System.out.print("Enter the Coefficient of b:");
    int b= sc.nextInt();
   System.out.print("Enter the Coefficient of c:");
    int c= sc.nextInt();
    if (a==0){
      System.out.println("Invalid Input");
    double d=(b*b)-4*a*c;
    if (d>0){
      System.out.println("Real and Distinct Roots");
      double r1= (-b+ Math.sqrt(d))/(2*a);
      double r2=(-b-Math.sqrt(d))/(2*a);
      System.out.println("The roots of the Equation is:");
      System.out.println(r1+" and "+r2);
    else if (d==0){
      System.out.println("Real and Equal Roots");
      double r = -b/(2*a);
      System.out.println("Roots:"+r);
   }
    else{
      System.out.println("No Real Roots");
    }
 }
 Enter the Coefficient, of a:2
 Enter the Coefficient of b:-8
 Enter the Coefficient of c:3
Real and Distinct Roots
The roots of the Equation is:
3.58113883008419 and 0.41886116991581024
```

O. Develop a java program that prints all real numbers solutions to the quadratic equation an2+6n+c = 0. Read a, b, c and we the quadratic formula.

import java. util. Scanner; class Quadratic Equation Solver {

public static void main (String [] args) { Scanner sc = new Scanner (system in) int a = sc. next Int (); for this ing ses with system. out. println ("Entu coeff. of a"); int b = sc. next Int ();

System. out. println ("Enter coeff. of b");

int c = sc. mxt Int () ; so in illos what

3ystem.out. printin ("Please enter valid");

if (d>0) {

System out println (" Real and distinct"); double x1 = (-b + m Math. sqrt(d))/2a; double r2 = (-b - Math. sgrt(d)) (2*a); system. out. println (" Roots are: "+ 81+" and " a r2);

else if (d==0) \$ system. out. println ("Roots are real and equal");

> double 8 = -b/(2*a); system. out . println ("Roots:"+8);

System.out. println ("No Real Roots"); to the quadratic equation and systems. Read as bi and we the gipadratic formula. import jaco util Scanner: class Buadratic Equation Solver & public static void main (string 1) to glady * Enter coefficient of a 1: 1208 was 1208 30000 Enter coefficient of \$ 178+11 trans 32 = 45 this coefficient of e: 3" withing the material Real & Distinct Roots Enter coefficient of a 1 1 5xum . se = 3 this coeff. of b: -4 coeff of c: 4 1 (0==p) 1 "biles Roots are "real and equal Roots: 2 Enter coeff of a: 1 ded = bold wob coeff of b: 1 coeff of e: 1 Equation has no real solution. double 812 (-6 + on Moth. sqrt(d))/20; double 12 = (-6 - Math. squt(d)) (0+a) system. out. paintly ("Roots are:"+81+"anc e 82); else if (d==0) } system, out polintly ("Ruots one real and equal!); double 8 = - 6/(2*a): system out privally ("Roots:"+ 7)