Alioley

Q) Develop a Java program that prints all real solutions to the quadratic equation and Honte = 0. Read in a, b, c and use the quadratic formula Ef the discriminant 62-rac is negative display a message stating that there are no real solutions. System out printly ( " Roch one Source Code/" " " + or +" + " por + " + toog") or twing . Just menting import jana. util. \*; public class Quad & Scanner Sc= new Scanner (System.in). Ent a, b, c,d; double n, re, d-sq; public shatic void main (Shing ?? angs) ? void input () { System. out. println (" Enter coefficients a, b, c. "); a > sc. nest Int (); b= 3c next Jul-(); c=sc. next Ent U; void calc () { a d= 6 \* b - 4 \* a \* c; if (d==0) { r1 = - b/ (2 + a); Eystem-out-println (" Roots are real and equal"); System. out. printle ("Root 1= "+r,+"InRoot 2 = "+10 ri); else if Caroll d=39 = Math. sqrt (d); r, = (-b+d-sq) / (20) a); 72 = (-6-d-sq)/(20+a); System. out. print ln (" Roots are real and distinct"); System. out. println (" Root 1 = "+ r, +" (n Root 2 = "+ r2);

else {
d-sq = Hath.sqrt (-d);  $r_1 = -b \left( (2.0 + a); \right)$ System. out. printin ("Roots are imaginary"); System. out. println ("Root 1 = "+ rit" + "+ r2+" i+ In Root 2 = "+ 7 +". : + - I de sori drogens r2+ "?"); while class Quad E Sconer St = mens Secumen (T) (Sychemian) class Quadratic & public static void main (String [] args)? Quad quad = new Quad (); veid lapate (18 a se newlithett: quad input (); be ge mest Ind-(); qued.catc(); Colland State U; void calc () E a d= bxb-ntaxc. Output 3(0==6) 31 Enter coefficients a, b, c: Egstein out prenthi (" Rock are real and equal "). System out printle (" Root 1=" +x+" "INProte = "+ 55 x); ? J(0x6) \$1 900 Roots are real and distinct d 80 = Math. Sport (6): Root 1 = 2.0 ( ( sas) ) ( ps b + d ) = 1 x Root 2 = 200 · (2 410) ) ( 42 b - d ) - c down out must be (" forth one neal and distinct "); · ( + + " = 5 took 14) 14 , 1 , 1 , 11

Enter coefficients a, b, c: name, an away events and an array marker. Endade anotherds Roots are imaginary Roof 1 = -0.5 + 0.8660254037844386i Root 2 = -0.5 - 0.8660254037844386i Enter coefficients a,b,c: 12 (op = 9 colored Hardus ) I. Roots are real and equal else of ( Subject Manles >= 80) Root 2 = -1.5 else if (subject Manks >= 20) of it (subject Marks > = 60) else of (subject Manles 2 - 50) else of (subject Marks > - 40)