Expt. No. ____ LAB PROGRAM-1 (12M19cs158) Page No. 6

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1) Develop a Java program that prints all real solutions to the
  quadractic equation ax2+bx+c=0. Read in a, b, c and use
  the quadratic formula. If the discriminate b2-4ac is negative,
  display a message stating that there are no real solutions
  imposet java. Util. Scanner;
  public class Quadratic
   public static void main (String args [])
      double a, b, c;
     double roots, roots;
      Scanner In = new Scanner (System.in);
     S.o.pln(" Enter value of a:").
     a = in.nextDouble();
     S.O.pln(" Entervalue of b:");
     b = in.nextDouble();
     5.0.pln(" Enter value of c:");
     C= in next Double();
     double determinant = (b*b) -(4*a*c);
    double sq = Math.sgrt (determinant);
    Il condition for real and different roots
    i) (determinant)0)
      root1 = ((-b+sq)/(2#a));
     9100t2 = (-b-sq) /(2xa);
     5.0. pln(" Root 1="+ noot 1+" It"+ "Root 2="+ noot2).
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Sneha Sxivastava
  OUTPUT:-
                                    (1BM19CS158)
     Enter value of a if held son and of tring of met in TAN
                       According explaint and organs than
     Enter value of b:
                               impose fave will scanner ,
     Enter value of c:
                                     rungoist sails it
                      Root2 = -0. 2 - 0. 42
     Root ] = -0.2+0.42
                     blic statis void main(String [] angs)
                    Swaner in = new Scanner (System in);
   Enter value of a:
                                         int min us :
                                 5.0.pin ("Entes nt:").
  Enter value of b:
                                      ol innextilet():
                                       while (unique)
 Enter value of c:
  6.25
                         Root 2 = 2.0 - 1.5.01 , solood
  Root1 = 2-0+ 1.5i
                        on line is 2; ile null
                           11 condition for nonper
  Enter value of a:
 Enter value of b:
                                    flag = knue;
Enter value of c:
Root 1 = -0.2
                Root2 = -1.0
                  (T=1+2880=1+017=6m110) 1:
                             : ("H"+111) triveq.0.2
```