```
LAB PROGRAM - 01
Develop a Trea program that prints all real solutions to the quadratic
equation and + bx + c = 0. Read to a, b, c and use the quadratic
 formula. If the discriminate 63-4 ac is negative, display a message
stating that there are no real solutions
inport java . util . Scanner ;
das quadratic
    inta, b, c;
    double 11, rd, d;
    void getd ()
        Scanner p = new Scanner (System. in);
        System autoprintle ("Enter the coefficients of a, b, c");
        a = s. rent Int ();
        b = s. restInt ();
        c = s. next Int ();
     void rampute ()
         While (a = = 0)
              System. out. printle ("Not a quadratic equation");
              System. Out. println (" Finter a non zero value for a: ");
              Scanner S = NEW Scanner (System. in);
              a = s. ned Int ();
         d= b * b - 4 * a * C ;
          4 (8== 0)
            81 = (-6) / (2 x a);
            Systemout printly ("Rods are real and equal");
            System. aut. printler (" Roots = Roots = "+ 81);
```

```
decy (2>0)
           21 = ((-6) + (Mith. og ot (d))) / (double) (2+1);
          23 - ((-6) - (Mith. got (d))) / (double) (3+a);
          System. not. printle ("Roots are real and distinct");
          System. out. printle ("Rost 2 = " + 21 + "Root 8 = " + 12);
        de 4 (2 20)
          system ast printle (" Roots are imaginary");
          12 - (-6)/(2+0);
          23 = Math. grt (-d)/ (2xx);
         System-out. printle ("Rolls = "+01+"+i"+70);
        System. out. printle ("Root 1 = " + 21 + "-" + 70);
plan Quadrate Main
  public static void main ( string argo ())
      quadratic q = new quadratic ()
      9. getd ();
     9. Compute ();
```

OUTPUTS

O Fater the coefficients of a,b,c

Rate are imaginary

Rost 9 = 0.0 + 00.47140452079

Rat & = 0.0 - i0.47140452079

The real and equal RM1 = RODD = -1.0

SANJANA SURESM 1BM 2200339

Enter the coefficients of a,b,c1 4 1

Rote are real and distinct

Rot = -3.732050907568877

Rot 2 = 0.0

Was Two