QUESTION:- Develop a Java program that prints all real solutions to the quadratic 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.

Code:-

```
LAB PROGRAM-1
as Develop a Java program that grints all sical
  solutions to the quadratic equation ax + bx+c=0.
  Read in a, b, c and use the quadratic formula.
  If the discriminate - b2 - unc is negative, display a
  mercage stating that there are no real solution.
import java. util. Scanner;
  class deploy {
 public static void main (string xx[]) {
        int a,b,c;
  Scanner s-new Scanner (system-in);
        System. cut. printin ("Entern the coefficients a,b,c(m");
   a: s. meat Int(); ( choose a chost of
   b= s. meatInt();
   c: s. mext Int();
   double des- (60b) - (40a0):
   double roots, roots;
   if (a==0) & dystem . out. println ("The equation is not
                quadratic (m"); }
   else if (desto) {
    noot 1 = - b + math. squt (der);
    400t2 = - 6+ Math. sget (des);
```

```
system. out. printen 1" The goots are seal and
    distinct In Root s: "+ roots + "Imroot a: "+ roota);
   7 - DENditing nothings standard son of mothers
   else if (des == 0) {
  moot 1 = 900t2 = -6/6-a);
  System. out println ("The noots are neal and equal ImPools:
           "+ 900ts + " \m Poota: "+ 400t2);
              static void main (string xxII) {
roots: - 6/60a):
noot 2: Math. sgrat (Math.abs (des)):
dystem.out. println ("The north are imaginary In Pools: "+20011+"+1" + 2001
         \m Poot2: "+900ts+"-1"+900t2);
                         der (186) - (400°0);
       of a dystem, but pundin or the equation
                      filan/sitationia
                                3 (0 120) 15 300
                     1665 - 16 + 100 th. Sant (des);
```

Output:-

