ESHAN PANDEY
1BM18CS131

LAB PROGRAM

```
import java.util.*;
import java.lang.*;

public class Main
{
    public static void main (String args[])
    {
      System.out.println("Enter a, b, c of the quadratic equation:");
      Scanner scan = new Scanner (System.in);
      double a = scan.nextDouble();
      double b = scan.nextDouble();
      double c = scan.nextDouble();
      double D = (b*b) - (4*a*c);
      System.out.println("D = "+d);
      if (d==0)
      {
        double r1 = -b/(2*a);
        System.out.println("The roots are real and equal.");
        System.out.println(r1);
      }
      else if (d>0)
      {
        double r1 = (-b + Math.sqrt(d))/(2*a);
        double r2 = (-b - Math.sqrt(d))/(2*a);
```

```
        System.out.println ("The roots are real and
                                distinct.");
        System.out.println (r1 + " and " + r2);
    }
    else
    {
        System.out.println ("There are no real
                                roots.");
    }
}
}
```