```
1) Quadratic
import java.util.
import java. lang.";
Public class Quad
    public static void main (String arys [])
       System. out. printer ("Enter a, b, c of quadratic equation:");
       Scanner scan = new Scanner (System.in);
       double a = scan next Double ();
       double b = scan next Double ();
       double G = Scan. next Double ();
       double d = (b*b)-(4*a*c);
        System.out.printlm ("D="+d");
        if (d==0)
            double 1 = - b/(2 xa);
             System.out.printen ("the roots real and distinct.");
             System.out. println(x1);
        else if (1>0)
             double x1 = (-b+Math. sqxt (d))/(2*a);
             double 12= (-b-Math. sqrt (d))/(2 a);
             System out println ("The roots are real and distinct.")
             System. out . println (81+" and "+x2);
              System.out. println ("There are no real roots.");
```