Name of the Experiment : WEEKS Date :

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import gava lang. Math; Import gava. UAL Scanner; public class quadrate & public state vold mala (string arge[]) { Scanner Sc = new Scanner (System. In); Systemout println(" - -- Friding not of a QE --- "); System.out. prontly "Enter co-efficients a.b, c of the QE"); double r, gat; double a = sc next Double 1); double b= sc.nextDoubleU; double c= sc next Double(); double dec = (Math. pow(b,2)) -4 \*a \*c; 14 (desc (a) f sgrt= (Math. sgrt(-dsc))/(2+a); Y = - 6/82 + a); System.out. pointly ("we B. So no real roots possible"); System out pointle (" Ing root are: "+++"+9"+ sgrt+ else if ( disc) o) f sgrt = (Math. sgrt (duc)) /(2 \*a); Y = - b/(2 \* a); System out printer ("Real roots: + (r+sqrt) + "and"+ (1 - sgrt));
4 // System.out. printf("Real roots are 7.4f & +.4f" crtsgrt),

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Signature.....

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else if (desc == 0) &

r=-b/(2+a);

System. out. println ("Roots are equal to "+r);

ALGORITHM

1. Input value of a, b, c

2. Calculate desc = 62-4ac

3. ZF Collic(0)

a) Calculate sgrt = J-disc /2+a

c) Obsplay roots

Else

If (disc)0)

a) (aculate sqrt = Souc 19a

6) Calculate r = -6/2a
real and destinct

O) Orsplay roots

S. Flee 98 Cdsc==0)

a) Calculate Y= -b(2a b) Osplay roots.