1 Rook of amad ratic equation O Figur a, b, C 2) d= b - 400 (3) if (d==0) " [mirt (" Two equal roon"). Delicij (d 20)

print (" Two dithect red
room") 11 = - b + masgr (d) 3/29 82 = (-b - sart (d)1/28 (" loo had sol ") tolong

SYNTAN' import java . whil. " des quedegs { public state void main (String ang []) { double a, b, C,d, x2, x2; Scarner in = new Scanner (System.in); Syeron - out print by (" Enter me coefficient of not a good constast Jerm"). a = in . neut Double); b= in . neut Double (); C= in rest Double (); a=(b*b)-("a"c); 13 (dro) 2 x1= (-b + Math. exgrt(a)) (20a); xx= (bt Math. cgrt(d))/(va). System out - printin ("Roots are real & district").

Syrom. out prints ("Poot are "+ n1+"au

else if (d==0) { x 1 = x2 = (- b/(2 -1); Syptom. out printle (" Poots are real and System out probate (" Room are"+ 12+" and"+ else ij (dco) { System out . printh (" truer are no real solis"); EXPECTED OUTPUT: Enow one coefficient of 2000, x, and company Enter one cofficient of not, n, and coursed Doop are real and equal Rook are -1.0 and -1.0

Suter me coefficients of 202, 2, and Doors were real and district Roop our -0.58576 and -3.4/42

```
C:\Users\praji\Desktop\java>java quadeqs
Enter the coefficients of x^2, x, and constant term

C:\Users\praji\Desktop\java>java quadeqs

Enter the coefficients of x^2, x, and constant term

C:\Users\praji\Desktop\java>java quadeqs

Enter the coefficients of x^2, x, and constant term

Roots are real and equal
Roots are -1.0 and -1.0

C:\Users\praji\Desktop\java>java quadeqs

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C:\Users\praji\Desktop\java>java quadeqs
```

11 SCAPA calculation Alexo Take Input as artial input SGRA sigo: -> no of courses Entralize array for marky and credits, from soudest class 3) Input name 8 us N is from when Input me marks to along with credits from wer Los call calculater metmotty Calculate metrod -Total = 0 to tal = rotal + (co credibli) cred - cred + credits Cil; rotal: both lored when (botal);

call diplay (mitrod) & diplay marks, credito 8 SCOP.A. SYNTAX: (2) Inport gara . util. "; class soudent & Shily usn, name; Static int credition); Static double marks(), void input (int n) Scenner SC= new Scanner (Systemin) Sydrem out printh (" cutor um & min) usn = sc. nentline(); name : sc . rent zine(); System.out printles (" Enter marks along for the 1:00; icn; (++) marks (i) = sc. n ent Double(); credit (i) = sc. neut Ant(); Syssem.out. mithous,

```
double calculate City)
 & mt c ; cred =0;
   double tot, sotal=0.00,
 for (int i=0; (2n, i++)
      sora = marks [13;
     (if (hot >=90)
           esseigl Hot > =80)
          else if ( 10+>=70)
    (1063) ween if ( 80+>=00)
             whe if (bot > = 50)
             els ( 65 > = 40)
             to fal = total + (cocredition);
             cred = cred + cr-discil)
              3 dotal = sotal (ord)
              serving botaly
```

roid diplay (int o , double rotal) Sytem out point of nanco (modut:") Sygram out printh (" uso of modera & " + uso). System out prints (" nacks of medent wity Cred's of comes) for (inti=0;in,i++) Systems out printh (marksci) +" " creditati); Sytum out prints ("sappa of straut!" public stati; rold main (John angst) Scanner sc = new Scenner (Systmin) Student Obj = new student(); System out printly ("enter 10. of course") int n= Sc. next fn+11; credit o new intent; mars = new double En]; obj. input (n); double botal = obj. certale(n)

org. display cn, 152al 25-ENP OUTPUT: Even no of course enter un entr 67 899 3 00 5 34 name of Fudent: any um of moderat : 123 marks of exerdent draywith eredi's of course 67.0 2 100,05

34.0 1 Sgpa of sonders -, 8.5484.

```
Users\praji\Desktop\java>java student
tem. O4
             enter usn and name
(int
             123
             aarya
             enter marks along with credits
stem.o2
ystem.o
public Smarks of student : aarya

public Smarks of student along with credits of course
                67.0
                99.0
                100.0
                       5
 Scanner
                 gpa of student : 8.545454545454545
  student
                 C:\Users\praji\Desktop\java>java quadeqs
Enter the coefficients of x^2, x, and constant term
```