WAP that prints are real solutions to the quadratic equation an2+ bn Read in a, b, c and we the quadratic ormula. If the discriminate b- Lac pagative, display a message stating that there are no real solutions import jours util scanner impost static Java long Math. import static java! lang. Math public class Quadratic & public static void main (string) dube int 81,82 isc = new Granmer (? System. out printer ( Enter coefficient rent Float b = Schent Float () = SC. Pent Float(). estern. Out printle (" Invalid input

elses d= b\*b- 1x0xc; " System at printen (" Post are soos and distinct) 8,=(-b+ mats sq 21(d)) (0+a) 82 = (-b - Math. 19xt(d)) (0xa) ystem. out : pxinten (" root = " + x1 + " root System at proten ( Post one real 8,=82= -b(()\*a); System Out printer (" sout 1="+81+" sout 2="+ System. out. printer (" roots are imaginal 82 = Myst (abs(d)) (200) System out printer ("root 1= 800+2="+82+"-1"+82)

· Flow chart Start Intializ a, b, s, d, 81, 82 Rand a, b, c formus Paint lovelid input 400 Fores d= bo - hac loss, are stood entry and district False are real & equal 81=80 = - 6/20 Folse Pairs 80015 are elle imaginary 040 81=-b+100 62=-b-100 Stop

Output: rook are seal and equal xent 1 = -1.0 xent 2 = -1.0 Anvalid input soots are imaginary 800+1= -1.25+10.6614 80012: toots are seal and distinct xoot 1 = -1.0 xoot 2 = -2.0

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C:\Users\bmsce\Desktop\1bm22cs027 ooj>javac Quadratic.java
C:\Users\bmsce\Desktop\1bm22cs027 ooj>java Quadratic
AKANKSHA SINGA
1BM22CS027
4
roots are real and equal
root1= -1.0 root2= -1.0
C:\Users\bmsce\Desktop\1bm22cs027 ooj>javac Quadratic.java
C:\Users\bmsce\Desktop\1bm22cs027 ooj>java Quadratic
AKANKSHA SINGA
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Invalid inuput
C:\Users\bmsce\Desktop\1bm22cs027 ooj>javac Quadratic.java
C:\Users\bmsce\Desktop\1bm22cs027 ooj>java Quadratic
AKANKSHA SINGA
1BM22CS027
5
roots are imaginary
root1= -1.25+ i0.6614378277661477 root2= -1.25- i0.6614378277661477
C:\Users\bmsce\Desktop\1bm22cs027 ooj>javac Quadratic.java
C:\Users\bmsce\Desktop\1bm22cs027 ooj>java Quadratic
AKANKSHA SINGA
1BM22CS027
3
roots are real and distinct
root1= -1.0 root2= -2.0
```