	Name: Sakshi, P. Khandoba USN: 18M19C5139  namerarid
	Section: 3C papergrid
	Batch: 2 Date: 10/09/20
2 - 6	Develop a Java program that prints all real
L. Activi	solutions to the quadratic equation ax2 + bx + c = 0.
	Read in a,b,c and use the quadratic formula.
	If the discriminate b'-4ac is negative, display a
	message saying there are no real solutions.
	import java.util. Scanner;
	class quadratic
	<b>£</b>
	public static void main (String args[7)
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7	double a, b, c;
	double r1, r2;
	double determinant;
	Scanner input = new Scanner (System.in):
The contract of	System. out. println ("Enter the values of a,b,c:");
	a = input. nextDouble();
	b = input.nextDouble();
	c = input. next Double();
	determinant = (b*b)-(4*a*c);
	if (determinant > 0)
	<u>{</u>
	r1 = (-b + Math. sqrt (determinant))/(2*a);
<u> </u>	r2 = (-b + Math sgrt (determinant))/(2*0).
<u> </u>	System.out.println ("Real roots of the augdratic
	equation are: "+r1+" and "+r2);
	Jacob Markey Reserved
	else if (determinant == 0)
<u>.</u>	
`	r1 = (-b + Math.sgrt (determinant))/(2 *a);
	System.out.printhn("They have equal real roots: "+ r1 + "and " + r1);
	roots: + r1 + and " + r1);
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	System out println ("There are no real solutions.")
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USN: 1BM19C5139 papergrid Section: 3C Date: 10 / 09/ 25 Botch: 2 2. Develop a Java program to create a class Student with members usn, name, an average credits and an averay marks. Include methods to accept and display details and a method to calculate SGIPA of a student. import java. util. Scanner; class Student String name; String usn; int marks[] = new int[5]; int Credits[] = new int[s]; int i,n; int grade = 0, total = 0; Void get-data() Scanner in = new Scanner (System. in); System. out. println ("Enter Student name: "); name = in. next(): System. out. printhn ("Enter Student USN: "); usn = in.next(): System. out. println ("Enter number of subject:"); n = in.nextInt(); System.out. println ("Enter subject credits and Subject marks: "); for(i=0; i<n; i++) System. out. println (" Credits for subject " + (i+1) + " : ");credits[i] = in. next Int(); System. out. println ("Marks in subject" + (i+1) + ": ");

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      marks[i] = in.nextInt();
void calculate_sgpa()
   for (i=0; i<n; i++)
      if(marks[i]>=90 && marks[i] <=100)
          grade = 10;
     grade=10;
else if (marks[i]>=80 && marks[i]<90)
          grade = 9;
     else if(marks[i]>-0 && marks[i]<40)
        gradi=0;
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         System. out. println ("Invalid marks entered.");
     total = total + (grade * credits[i]);
  total = total/20:
  System. out . println ("SGPA = " + total);
void stud-details()
    System. out. println ("Name: " + name);
System. out. println ("USN: " + USN);
System. out. println ("Marks & Credits of all subjects:")
    for (i=0; i<n; i++)
        System. out. printly (" Name: " + name):
        System. out. println ("Marks: " + marks[i] + ", credits: " + credits[i]);
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  calculate-sgpa();
public static void main (String args[])
  Student obj = new Student();
  obj.get_data();
System.out.println();
  Obj. Stud-dotails ();
```