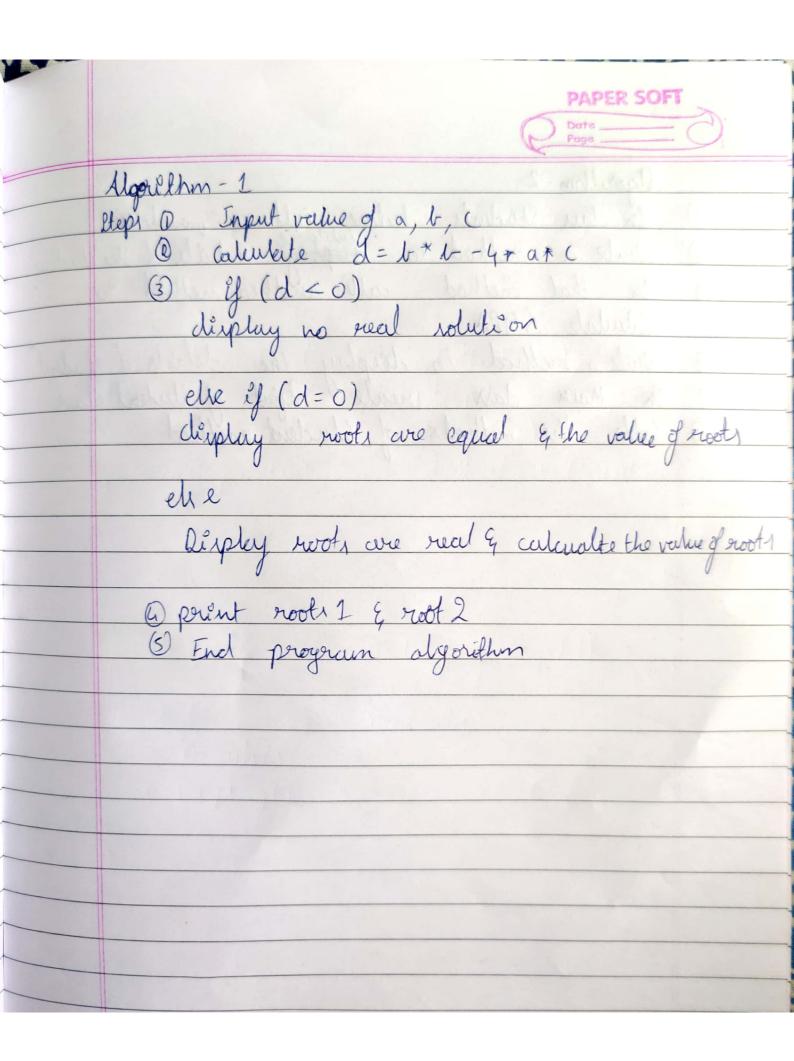
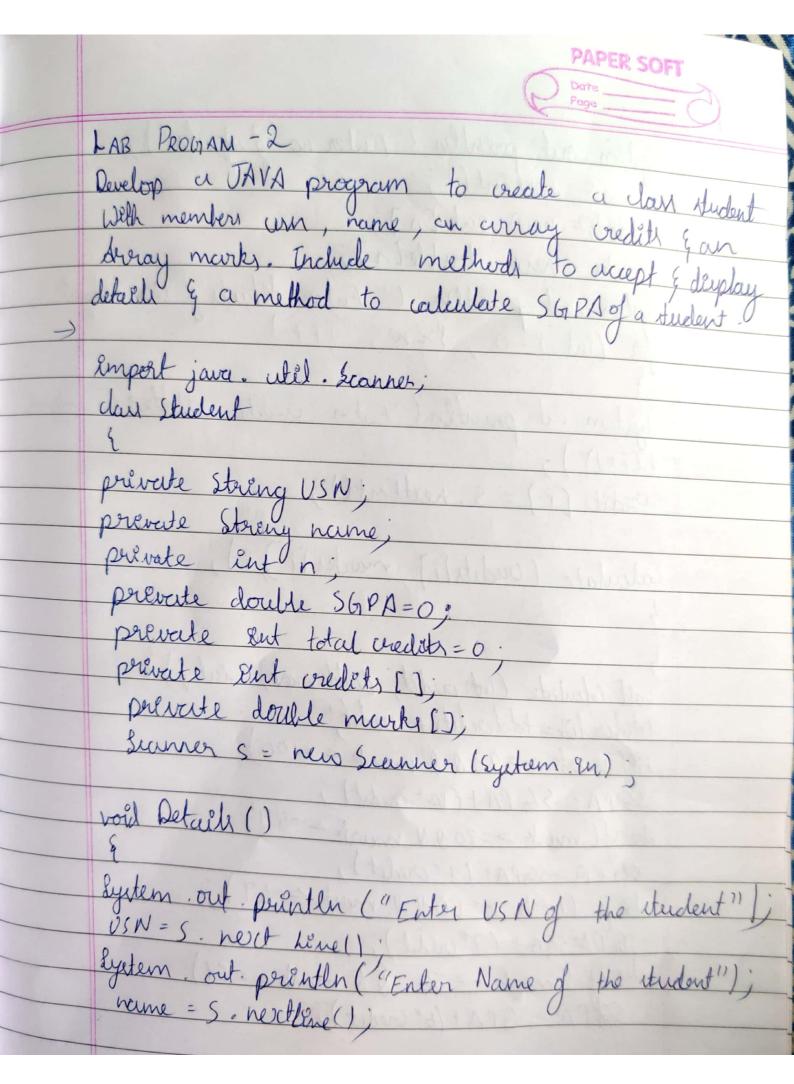
LAB PROGRAM - 1 & Revelop a Java Program that prints all real Solutions to the quadratic equation axtbx+c=0 Read in a, b, a & use the quadratic formula If the direcemenate b2-4ac is negative, display A menage stating there are no real solution. -> import java . utel . scanner class Quadratic { public static void main (string [] args) & Scanner s = new scanner (System, Pn); System out peintle ("Enter the value of a In") interessiones double root 1, root 2; double a = S. next Double (); System out prentle ("Enter the value of b (h"); double b = S. next Double (); System out printh ("Enter the value of (In") double (= 5. next Double (); double dix = (++ b) - 4(a+c);

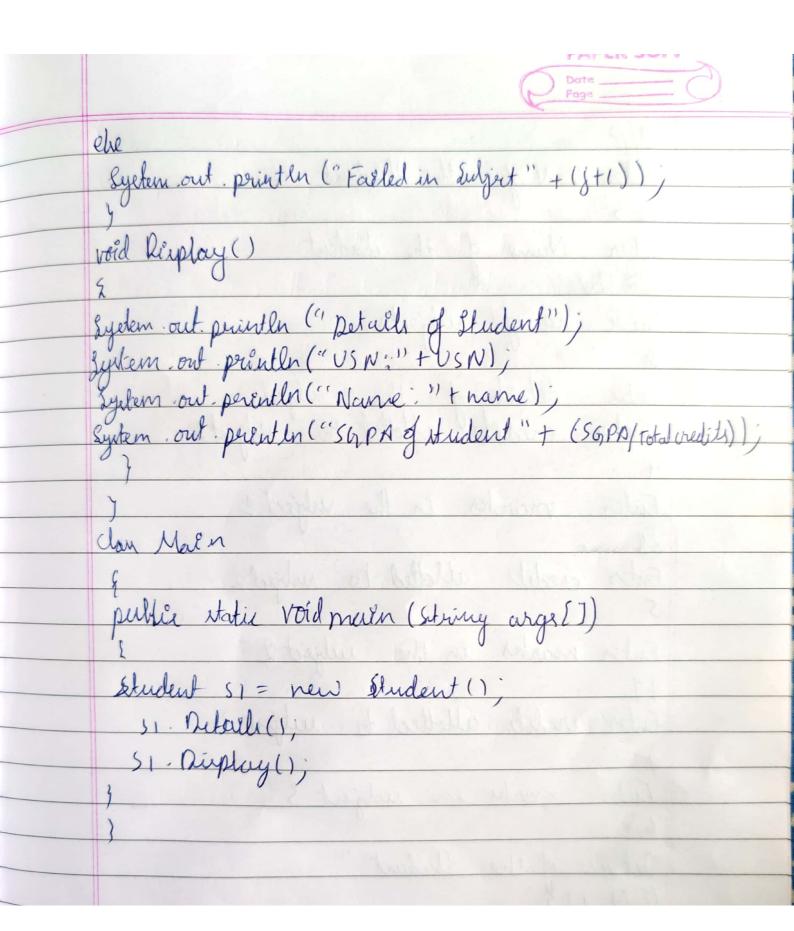
if (der > 0) to do not 1 = (-b+ Math. rgpt (dix)/(2+a)) 2 - (- t - Math. eget (dis) /(2 - a)) system out println (" Two distinct Real roots virti: root 1 = " + root 1 + " root 2 = " + root 2) else if (dis ==0) noof 1 = root 2 = (- b/(2*a)); Bystem out println ("In Two equal & real roots celts: root 1 = " + root 2 + " root 2 = " + root 2) System out println ("INO real roution exists") Enter the value of a Enter the value of t Enter the value of (No real volution extr Scanned with CamScanner





System out printle ("Fenter no of wygets") n=5. hort Int (); ordit= new ent [n]; marky = new double [n]; Lysten, out printles (" Enter details of the subject for lent 9=0; Ben; itt Lysten out println ("Enter crediti allotted to enjust credity (P) = S. hextEnt(); Calculate (oudits[i] marks [i]) void Calculate (Ent credit, double mark, int) ? totalcredite = totalcredits + credit' Ef (mark >= 90 d d merk <= 100) 36 PA = SG PA + (10 + credit) else if (mark ==89) SGPA = SGPA+ (9 + credit) chy (mark >=600 v menk <=69) S6 PA= SGA + (7* Oredit); elle if (mark > = 50 & a mark < = 59) SGPA = SGPA+(6* Credit);

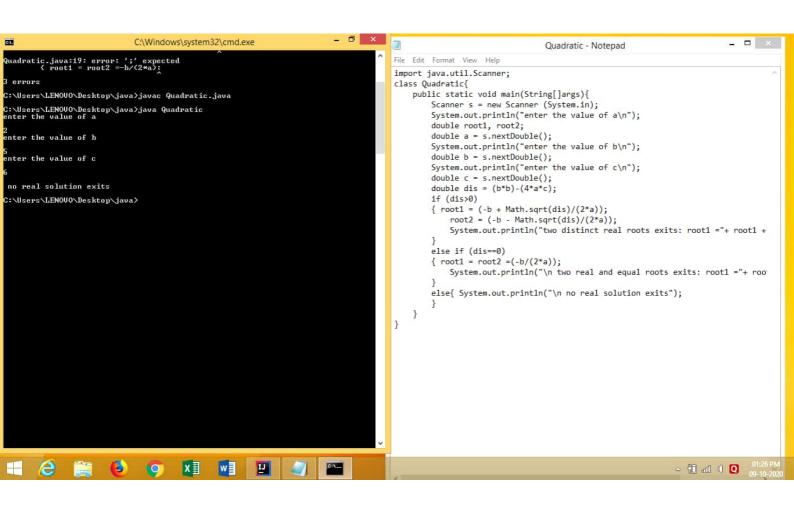
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Enter USN of the Etudent Enter Name of the student Enter no of rubjects Enter credits allotted to judged 1 Enter marks in the rubject 2 Enter credite allotted to subject 2 Enter marker en the rubject 2 Enter credit allotted to subject 3 Enter marke en rubject 3 Details of the Student Name: Rev SGPA of Studen 8.76923076923077

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	Algorithm - 2
0	In dan Studente declare intrance voviables Write a method to desprise details of the student
(2)	Write a method to design details of the student
(3	In that method call another method to
9	Catalata S61PA
(1)	1 all al beginning the celegal of thereby
(H)	10 Mula day weath object of Student clay
9	In Muln days weath object of Student class call the methods of Student method
6	and the state of t
	3.213
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	Maria China
	The state of the s



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Main - Notepad
File Edit Format View Help
import java.util.Scanner;
class Student
     private String USN;
     private String name;
private int n;
private double SGPA = 0;
     private int totalCredits = 0;
     private int credits[];
     private double marks[];
     Scanner ss = new Scanner(System.in);
     void Details()
          System.out.println("Enter USN of the student");
          USN = ss.nextLine();
System.out.println("Enter Name of the student");
          name = ss.nextLine();
          System.out.println("Enter no of subjects");
          n = ss.nextInt();
          credits = new int[n];
marks = new double[n];
System.out.println("*Enter details of the subjects:*");
          for(int i=0;i<n;i++)
               \label{eq:continuous} System.out.println("Enter credits allotted to the subject "+(i+1)); \\ credits[i] = ss.nextInt(); \\ System.out.println("Enter marks in the subject "+(i+1)); \\ \end{cases}
               marks[i] = ss.nextInt();
               Calculate(credits[i],marks[i],i);
          }
     void Calculate(int credit,double mark,int j)
          totalCredits = totalCredits + credit;
          if(mark>=90&&mark<=100)
                                                                                                                                                                                            △ 🛍 🛍 🌓 Q 01:53 PM
```

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Main - Notepad
File Edit Format View Help
          totalCredits = totalCredits + credit;
          if(mark>=90&&mark<=100)
               SGPA = SGPA + (10*credit);
           else if(mark>=80 && mark<=89)
          SGPA = SGPA + (9*credit);
else if(mark>=70&&mark<=79)
               SGPA = SGPA + (8*credit);
          else if(mark>=60&&mark<=69)
          SGPA = SGPA + (7*credit);
else if(mark>=50 && mark<=59)
SGPA = SGPA + (6*credit);
          else if(mark>=40&&mark<=49)
                SGPA = SGPA + (5*credit);
               {\bf System.out.println("Failed in Subject "+(j+1));}\\
     void Display()
          System.out.println("Details of the Student");
System.out.println("USN: "+USN);
System.out.println("Name :"+name);
System.out.println("SGPA of Student "+(SGPA/totalCredits));
class Main
     public static void main(String args[])
          Student s1 = new Student();
          s1.Details();
          s1.Display();
                                                                                                                                                                                                  △ 10 20 01:54 PM
```

