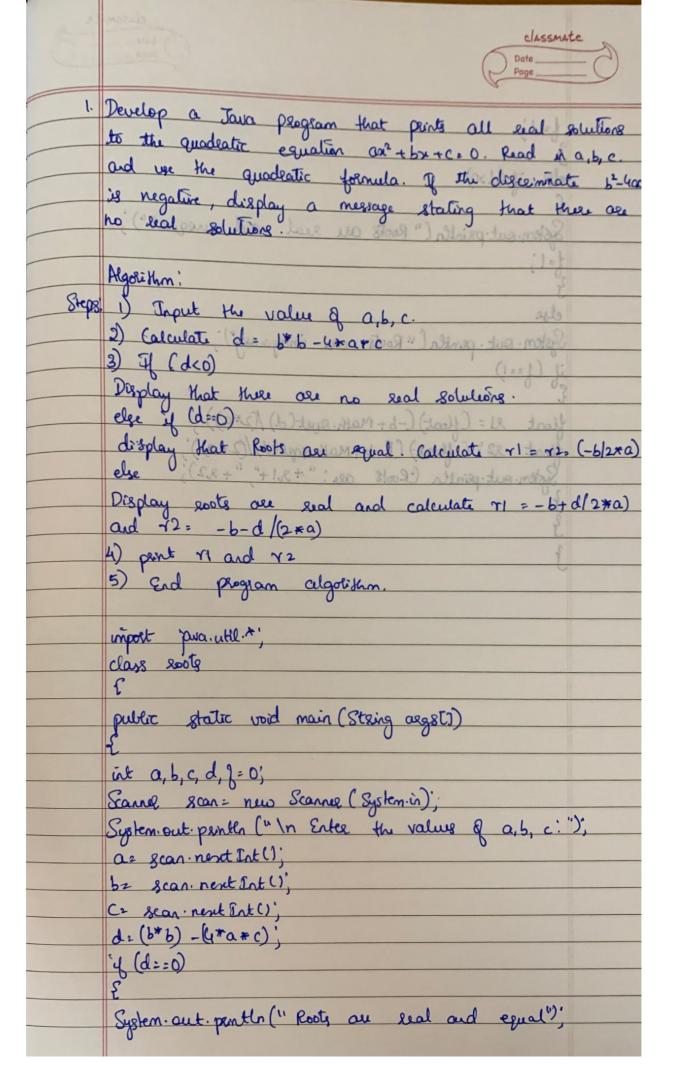
```
Equation.java — Edited
class roots
{
  public static void main(String args[])
  int a,b,c,d,f=0;
Scanner scan=new Scanner(System.in);
System.out.println("\nEnter the values of a,b,c:");
a=scan.nextInt();
b=scan.nextInt();
c=scan.nextInt();
d=(b*b)-(4*a*c);
if(d==0)
  System.out.println("Roots are real and equal");
  f=1;
else if(d>0)
 System.out.println("Roots are real and unequal");
f=1;
}
else
System.out.println("Roots are imaginary");
if(f==1)
{ float r1=(float)(-b+Math.sqrt(d)/(2*a));
  float r2=(float)(-b+Math.sgrt(d)/(2*a));
  System.out.println("Roots are:"+r1+","+r2);
```

```
symbol:
            method b(double)
  location: class Equation
3 errors
poojaraghu@Poojas-MacBook-Pro Desktop % javac Equation.java
poojaraghu@Poojas-MacBook-Pro Desktop % ls
Equation.class
Equation.java
Main.class
Main.java
Microsoft_Office_16.41.20091302_HomeStudent_Installer.pkg
dosbox.app
masm
roots.class
poojaraghu@Poojas-MacBook-Pro Desktop % java Equation
Enter a,b,c value:
2 5 8
Imaginary root1: -5.0+ 6.244997998398398i
Imaginary root2: -5.0- 6.244997998398398i
poojaraghu@Poojas-MacBook-Pro Desktop % java Equation
Enter a,b,c value:
3 6 7
Imaginary root1: -9.0+ 10.392304845413264i
Imaginary root2: -9.0- 10.392304845413264i
poojaraghu@Poojas-MacBook-Pro Desktop %
```

Desktop — -zsh — 80×24



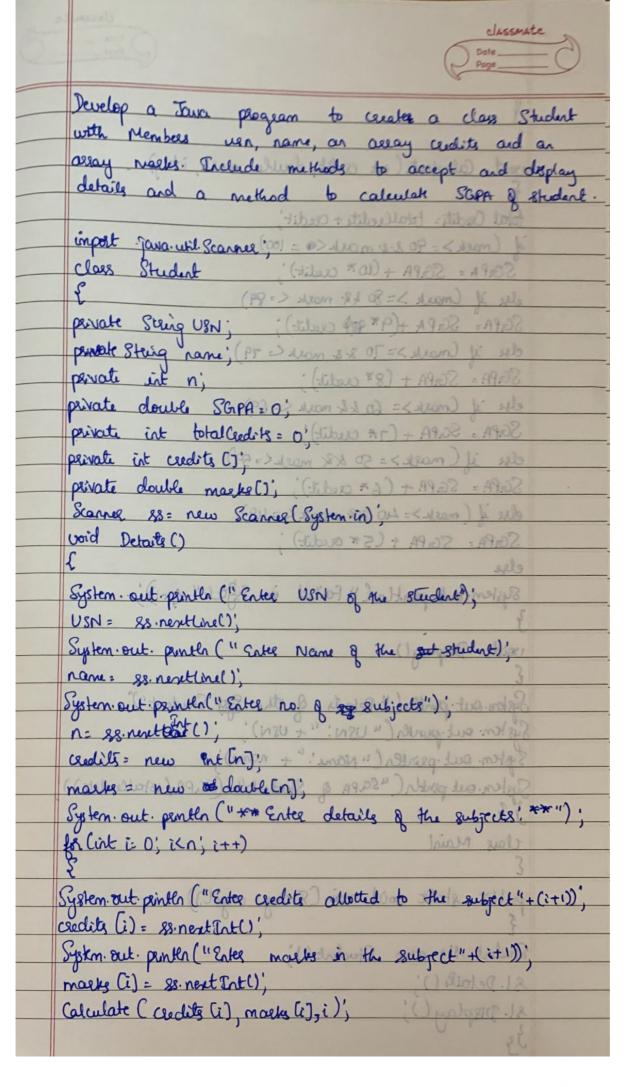
System-out-println (" Roots are rea loat &1 = Cfloat) (-b+ Math. squet(d) /(2*a))

loat &2 = (float) (= b+ Math. squet(d) /(2*a)

System.out.pointla (Poots are: "+ &1+", "+ &2

```
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++)
                 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));
                 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)
                          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);
                 else
                          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 Main1
         public static void main(String args[])
                 Student s1 = new Student();
                 s1.Details();
                 s1.Display();
         }
}
```

```
Desktop — -zsh — 127×29
poojaraghu@Poojas-MacBook-Pro desktop % java Main1
Enter USN of the student
1BM19CS135
Enter Name of the student
Pooja
Enter no of subjects
*Enter details of the subjects:*
Enter credits allotted to the subject 1
Enter marks in the subject 1
82
Enter credits allotted to the subject 2
Enter marks in the subject 2
Enter credits allotted to the subject 3
Enter marks in the subject 3
81
Enter credits allotted to the subject 4
Enter marks in the subject 4
Details of the Student
USN: 1BM19CS135
Name : Pooja
SGPA of Student 9.3333333333333334
poojaraghu@Poojas-MacBook-Pro deskton % []
```



```
Classmate
 woid Calculate (int coudit, double malk, int )
 total Codit: totallyedite + credit,
 if (mack>= 90 && mack ( = 100)
 SGIPA = SGIPA + (10 * credit);
 else if Cmark >= 80 && mark <= 89)
 SGPA = SGPA + (9* 00) credit);
 else if (mask >= 70 && mosk <= 79)
 SGPA = SGPA + (8* credit);
 else if Cmark>= 60 && mark <= 69)
 SGPA: SGPA + (7* credit); = 21:10:10+01 41
 else if (mark>= 50 && mark (= 59) 11 11 11
 SGPA = SGPA + (6 * credit); Delan
 else if (mark>= 40 && mark < = 49)
 SGPA = SGPA + (5* credit); O should be
 else
 System out pentla ("Failed in Suject"+(++1);
 Gold Display ()
System out portly ("Details of the Bot Student"),
System out punth ("USN: "+ USN);
System out printer ("Name: "+ name)
System out pontly ("Sapa of Student"+ (Sapa/total Cendity));
class Main!
public static boid main (8 ting args [])
Student S12 new Student ()
Sl. Details ()'
SI-Deplay ();
```