src\Problem1.java

```java
/*
Name: Hunter Poole
Date: 2/18/25
HW #: 4
Problem #: 1
Source Code: Problem1.java
Action: For the grade and credit hours of two classes, provides a GPA and a status message.
 */

import java.util.Scanner;

public class Problem1 {
    public static void main(String[] args)
    {
        final float A = 4.0f, B = 3.0f, C = 2.0f, D = 1.0f, F = 0.0f;
        float Grade1_Float = F, Grade2_Float = F, GPA = 0.0f;
        String Grade1_String = "F", Grade2_String = "F";
        int Credits1 = 0, Credits2 = 0;

        Scanner Input1 = new Scanner(System.in);
        System.out.print("Enter letter grade for first class --> ");
        Grade1_String = Input1.next();

        Scanner Input2 = new Scanner(System.in);
        System.out.print("Enter number of credit hours for first class --> ");
        Credits1 = Input2.nextInt();

        System.out.println();

        Scanner Input3 = new Scanner(System.in);
        System.out.print("Enter letter grade for second class --> ");
        Grade2_String = Input3.next();

        Scanner Input4 = new Scanner(System.in);
        System.out.print("Enter number of credit hours for second class --> ");
        Credits2 = Input4.nextInt();

        System.out.println();

        switch (Grade1_String)
        {
            case "A":
                Grade1_Float = A;
                break;
            case "B":
                Grade1_Float = B;
                break;
```

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48              case "C":
49                  Grade1_Float = C;
50                  break;
51              case "D":
52                  Grade1_Float = D;
53                  break;
54              case "F":
55                  Grade1_Float = F;
56                  break;
57          }
58
59          switch (Grade2_String)
60          {
61              case "A":
62                  Grade2_Float = A;
63                  break;
64              case "B":
65                  Grade2_Float = B;
66                  break;
67              case "C":
68                  Grade2_Float = C;
69                  break;
70              case "D":
71                  Grade2_Float = D;
72                  break;
73              case "F":
74                  Grade2_Float = F;
75                  break;
76          }
77
78          GPA = ((Grade1_Float * Credits1) + (Grade2_Float * Credits2)) / (Credits1 +
    Credits2);
79
80          System.out.printf("%s %3d %n", Grade1_String, Credits1);
81          System.out.printf("%s %3d %n", Grade2_String, Credits2);
82          System.out.printf("%s %.5f %n", "Your GPA = ", GPA);
83
84          if (GPA >= 3.5)
85          {
86              System.out.print("Congratulations, doing good");
87          }
88
89          if (GPA < 2.0)
90          {
91              System.out.print("You are doing poorly");
92          }
93      }
94  }
95
```

```
/*
Enter letter grade for first class --> B
Enter number of credit hours for first class --> 3

Enter letter grade for second class --> C
Enter number of credit hours for second class --> 4

B   3
C   4
Your GPA =  2.42857

Enter letter grade for first class --> B
Enter number of credit hours for first class --> 3

Enter letter grade for second class --> A
Enter number of credit hours for second class --> 4

B   3
A   4
Your GPA =  3.57143
Congratulations, doing good

Enter letter grade for first class --> D
Enter number of credit hours for first class --> 3

Enter letter grade for second class --> C
Enter number of credit hours for second class --> 3

D   3
C   3
Your GPA =  1.50000
You are doing poorly

Enter letter grade for first class --> A
Enter number of credit hours for first class --> 5

Enter letter grade for second class --> F
Enter number of credit hours for second class --> 3

A   5
F   3
Your GPA =  2.50000
*/
```