src\Problem1.java

```java
/*
Name: Hunter Poole
Date: 2/20/25
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;
        char Grade1_Ch, Grade2_Ch;
        int Credits1, Credits2;

        Scanner Input = new Scanner(System.in);
        System.out.print("Enter letter grade for first class --> ");
        Grade1_Ch = Input.next().charAt(0);

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

        System.out.println();

        System.out.print("Enter letter grade for second class --> ");
        Grade2_Ch = Input.next().charAt(0);

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

        System.out.println();

        switch (Grade1_Ch)
        {
            case 'A':
                Grade1_Float = A;
                break;
            case 'B':
                Grade1_Float = B;
                break;
            case 'C':
                Grade1_Float = C;
                break;
```

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48              case 'D':
49                  Grade1_Float = D;
50                  break;
51              case 'F':
52                  Grade1_Float = F;
53                  break;
54          }
55
56          switch (Grade2_Ch)
57          {
58              case 'A':
59                  Grade2_Float = A;
60                  break;
61              case 'B':
62                  Grade2_Float = B;
63                  break;
64              case 'C':
65                  Grade2_Float = C;
66                  break;
67              case 'D':
68                  Grade2_Float = D;
69                  break;
70              case 'F':
71                  Grade2_Float = F;
72                  break;
73          }
74
75          GPA = ((Grade1_Float * Credits1) + (Grade2_Float * Credits2)) / (Credits1 +
    Credits2);
76
77          System.out.printf("%s %3d %n", Grade1_Ch, Credits1);
78          System.out.printf("%s %3d %n", Grade2_Ch, Credits2);
79          System.out.printf("%s %.5f %n", "Your GPA = ", GPA);
80
81          if (GPA >= 3.5)
82          {
83              System.out.print("Congratulations, doing good");
84          }
85
86          if (GPA < 2.0)
87          {
88              System.out.print("You are doing poorly");
89          }
90      }
91 }
92
93 /*
94 Enter letter grade for first class --> B
95 Enter number of credit hours for first class --> 3
```

```
 96
 97   Enter letter grade for second class --> C
 98   Enter number of credit hours for second class --> 4
 99
100   B    3
101   C    4
102   Your GPA =   2.42857
103
104   Enter letter grade for first class --> B
105   Enter number of credit hours for first class --> 3
106
107   Enter letter grade for second class --> A
108   Enter number of credit hours for second class --> 4
109
110   B    3
111   A    4
112   Your GPA =   3.57143
113   Congratulations, doing good
114
115   Enter letter grade for first class --> D
116   Enter number of credit hours for first class --> 3
117
118   Enter letter grade for second class --> C
119   Enter number of credit hours for second class --> 3
120
121   D    3
122   C    3
123   Your GPA =   1.50000
124   You are doing poorly
125
126       // Additional cases //
127       // Test for F, not included above //
128
129   Enter letter grade for first class --> A
130   Enter number of credit hours for first class --> 5
131
132   Enter letter grade for second class --> F
133   Enter number of credit hours for second class --> 3
134
135   A    5
136   F    3
137   Your GPA =   2.50000
138   */
```