```java
1 package GPA;
2
3 import java.util.Scanner;
4
5 public class GPA {
6
7     public static void main(String[] args) {
8         // TODO Auto-generated method stub
9         Scanner sc = new Scanner(System.in);
10
11         double gradeNumber = 0.0;
12
13         double GPA = 0.0;
14
15         double gradePoints = 0.0;
16
17         double finalGPA = 0.0;
18
19
20         int creditTotal = 0;
21
22         int Credit = 0;
23
24
25         String courseList = null;
26
27         String courseInfo = null;
28
29
30         System.out.println("Enter the course information title, credit hours, letter grade (
   grade can be followed by + or -), or enter Q to quit: ");
31
32
33         if(courseInfo.equals("Q")) {
34             break;
35         }
36
37         String [] data = courseInfo.split(",");
38         String info = data[0];
39         int hours = Integer.parseInt(data[1]);
40         String grade = data[2];
41
42         Credit = hours;
43         courseList = info;
44         creditTotal += hours;
45
46             System.out.println("Course: " + courseList);
47             System.out.println("Credits: " + Credit + "(" + creditTotal + "total)");
48
49
50
51         if (grade.equals("A") || grade.equals("A+")) {
52             gradeNumber = 4.0;
53             finalGPA += gradeNumber;
54             System.out.println("The numeric value is: " + gradeNumber + " (" + finalGPA +
   "total)");
55
```

```java
56              }
57          else if (grade.equals("A-")) {
58              gradeNumber = 3.7;
59              finalGPA += gradeNumber;
60              System.out.println("The numeric value is: " + gradeNumber + " (" + finalGPA +
    "total)");
61
62              }
63          else if (grade.equals("B+")) {
64              gradeNumber = 3.3;
65              finalGPA += gradeNumber;
66              System.out.println("The numeric value is: " + gradeNumber + " (" + finalGPA +
    "total)");
67
68              }
69          else if (grade.equals("B")) {
70              gradeNumber = 3.0;
71              finalGPA += gradeNumber;
72              System.out.println("The numeric value is: " + gradeNumber + " (" + finalGPA +
    "total)");
73
74              }
75          else if (grade.equals("B-")) {
76              gradeNumber = 2.7;
77              finalGPA += gradeNumber;
78              System.out.println("The numeric value is: " + gradeNumber + " (" + finalGPA +
    "total)");
79
80              }
81          else if (grade.equals("C+")) {
82              gradeNumber = 2.3;
83              finalGPA += gradeNumber;
84              System.out.println("The numeric value is: " + gradeNumber + " (" + finalGPA +
    "total)");
85
86              }
87          else if (grade.equals("C")) {
88              gradeNumber = 2.0;
89              finalGPA += gradeNumber;
90              System.out.println("The numeric value is: " + gradeNumber + " (" + finalGPA +
    "total)");
91
92              }
93          else if (grade.equals("C-")) {
94              gradeNumber = 1.7;
95                  finalGPA += gradeNumber;
96          System.out.println("The numeric value is: " + gradeNumber + " (" + finalGPA +
    "total)");
97
98              }
99          else if (grade.equals("D+")) {
100             gradeNumber = 1.3;
101             finalGPA += gradeNumber;
102             System.out.println("The numeric value is: " + gradeNumber + " (" + finalGPA +
    "total)");
103
104             }
```

```
105         else if (grade.equals("D")) {
106             gradeNumber = 1.0;
107             finalGPA += gradeNumber;
108             System.out.println("The numeric value is: " + gradeNumber + " (" + finalGPA +
    "total)");
109
110         }
111         else if (grade.equals("F")) {
112             gradeNumber = 0;
113             finalGPA += gradeNumber;
114             System.out.println("The numeric value is: " + gradeNumber + " (" + finalGPA +
    "total)");
115
116         }
117         else {
118             System.out.println("Invalid Letter Grade");
119
120
121
122
123
124         }
125         }
126
127     }
128
129 }
130
```