

# 모범 답안

Challenge 2의 모범 답안입니다.

## 학점 계산기

calculators/grade\_calculator.py

```
1 print("학점계산기 프로그램입니다!")
2
3 number_of_subject = input("과목 갯수를 입력해주세요 : ")
4 number_of_subject = int(number_of_subject)
5
6 subject_name = list()
7 subject_score = list()
8 subject_grade = list()
9
10 while len(subject_name) != number_of_subject:
11     subject_name.append(input("과목명을 입력해주세요 : "))
12     subject_score.append(input("당신의 점수를 입력해주세요 : "))
13     subject_grade.append(input("취득한 학점을 입력해주세요 : "))
14
15
16 calculating_way = input('''
17     학점 계산 방식을 선택해주세요.
18     1. 4.5 만점
19     2. 4.3 만점
20     ''')
21
22 score = 0
23 amount_of_grade = 0
24
25 for index, value in enumerate(subject_score):
26
27     grade = int(subject_grade[index])
28     amount_of_grade += grade
29
30     if calculating_way == '1':
31         if value == 'A+':
32             score += 4.5 * grade
33         elif value == 'A':
34             score += 4.0 * grade
35         elif value == 'A-':
36             amount_of_grade -= grade
37         elif value == 'B+':
38             score += 3.5 * grade
```

```
39     elif value == 'B':
40         score += 3.0 * grade
41     elif value == 'B-':
42         amount_of_grade -= grade
43     elif value == 'C+':
44         score += 2.5 * grade
45     elif value == 'C':
46         score += 2.0 * grade
47     elif value == 'C-':
48         amount_of_grade -= grade
49     elif value == 'F':
50         score += 0
51     else:
52         amount_of_grade -= grade
53
54     elif calculating_way == '2':
55         if value == 'A+':
56             score += 4.3 * grade
57         elif value == 'A':
58             score += 4.0 * grade
59         elif value == 'A-':
60             score += 3.7 * grade
61         elif value == 'B+':
62             score += 3.3 * grade
63         elif value == 'B':
64             score += 3.0 * grade
65         elif value == 'B-':
66             score += 2.7 * grade
67         elif value == 'C+':
68             score += 2.3 * grade
69         elif value == 'C':
70             score += 2.0 * grade
71         elif value == 'C-':
72             score += 1.7 * grade
73         elif value == 'F':
74             score += 0
75         else:
76             amount_of_grade -= grade
77
78     else:
79         print("잘못된 연산 방법 입니다. 프로그램을 종료합니다.")
80         break
81
82 print('''
83 당신이 이번학기 들었던 총 학점 : {0}
84 당신의 GPA : {1}
85 '''.format(amount_of_grade, score/amount_of_grade))
```