

< Project 2 >

1612759 화학과 양현지

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IP-2021.4.703208150 (python 115 (115))
Enter grade on midterm : 105
Enter grade on final exam : 100
Score range is 0~100.
Enter grade on midterm : 100
Enter grade on final exam : 200
Score range is 0~100.
Enter grade on midterm : -30
Enter grade on final exam : 20
Score range is 0~100.
Enter grade on midterm : 40
Enter grade on final exam : -70
Score range is 0~100.
Enter grade on midterm : 95.4
Enter grade on final exam : 78.6
Semester Grade: B
```

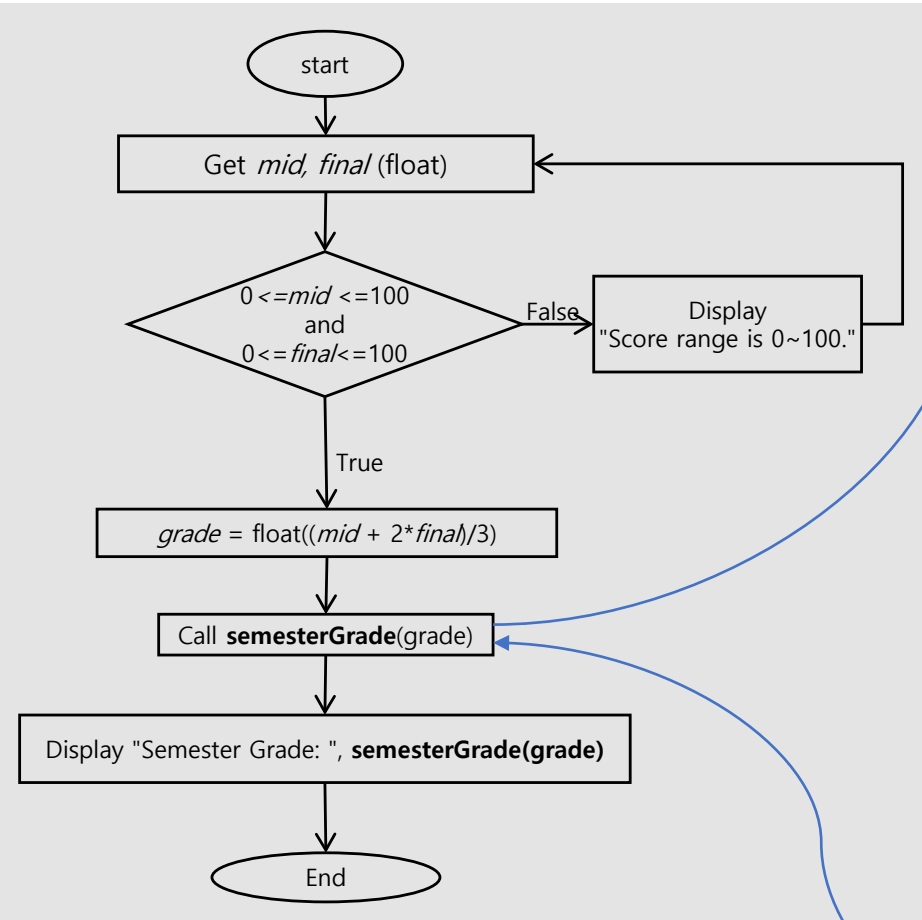
Until you input 0~100 at mid and final, you cannot break the loop. A sentence indicating the correct range is displayed.

You input mid = 95.4, final = 78.6
 $grade = (95.4 + 2 * 78.6) / 3 = 84.2$
You break the loop and call semesterGrade function
At semesterGrade function, you call ceil function.
At ceil function, $grade = 84.2$, $int(grade) = 84$
Because $84.2 - 84 > 0$, so $grade = 84 + 1 = 85$ round up by if statement.
Return grade and back to semesterGrade function.
 $grade = 85$.
Because $80 \leq 85 < 90$, it return "B" by if-elif-else statement.
Back to main function, $semesterGrade(grade) = "B"$
So display "Semester Grade: B"
end.

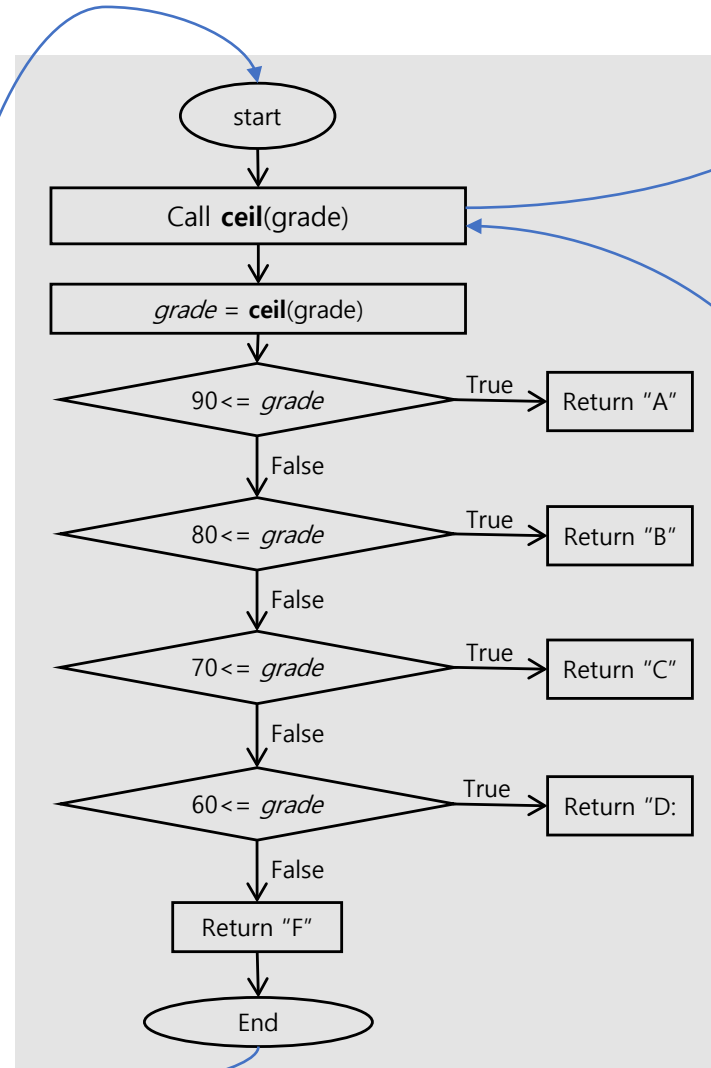
```
\project2.py' code\extensions\ms-
Enter grade on midterm : 88
Enter grade on final exam : 91
Semester Grade: A
PS C:\Users\sw045\Documents\21-1\
```

You input mid = 88, final = 91. if statement Yes
 $grade = (88 + 2 * 91) / 3 = 90$ break the loop.
Call semesterGrade function
Call ceil function
 $90 - 90 = 0$ if statement NO.
 $grade = 90$ (not changed)
Return grade.
Back semesterGrade function
 $grade = 90$.
 $90 \leq 90$. if statement YES.
Return "A"
Back main function.
display "Semester Grade: A"
End.

<main()>



<semesterGrade(grade)>



<ceil(grade)>

