

Homework 2

Date	@August 22, 2024
∷ Week	Semana 3

Grade Calculator

Input:

• 6 different grades for 1 student.

Output:

• Average grade and the letter.

Process:

- 1. Create a dictionary in which the grades will be saved.
- 2. Create a for loop x6 that asks for the grade and saves them in the dic.
- 3. Average = dic.sum/dic.lenght()
- 4. IF average:
 - a. $90 100 \rightarrow print (A)$
 - b. B: $80 89 \rightarrow print B$
 - c. C: 70 79 → print C

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d. D: 60 - 69 \rightarrow print D
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e. F: Below 60 → Print F

Test Case:

Grades: [90, 91, 89, 83, 100, 93]

Average = $546 / 6 = 91 \rightarrow A$

Terminal:

```
\triangleright Python + \vee \square

✓ TERMINAL

  /usr/local/bin/python3.12 /Users/ximyer/Desktop/A
  -TEC/week3/hw2.py
ximyer@Yeraldins-MacBook-Air week3 % /usr/local/b
  in/python3.12 /Users/ximyer/Desktop/A-TEC/week3/h
  w2.py
  GRADE 1
  Input your grade:90
  GRADE 2
  Input your grade:91
  GRADE 3
  Input your grade:89
  GRADE 4
  Input your grade:83
  GRADE 5
  Input your grade:100
  GRADE 6
  Input your grade:93
  91.0 A
o ximyer@Yeraldins-MacBook-Air week3 %
```

BMI Calculator

Input

- Weight
- Height

Output

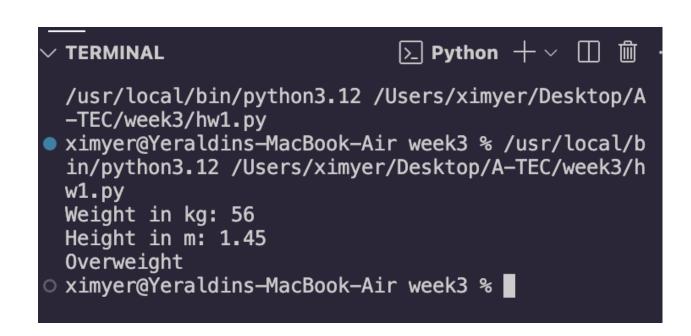
• Description of IMC

Process

- 1. Ask for weight and save it in a variable.
- 2. Ask for height and save it in a variable.
- 3. Use the formula: index = weight / height**2
- 4. Based on the result of index, write the possible scenarios.
- 5. IF:
 - a. index < 18.5. 'LOW WEIGHT'
 - b. 18.5 <= index < 24.9 'NORMAL'
 - c. 24.9 <= index < 29.9 'OVERWEIGHT'
 - d. index < 40 'OBESITY'
 - e. No valid data?
- 6. Print the valid scenario.

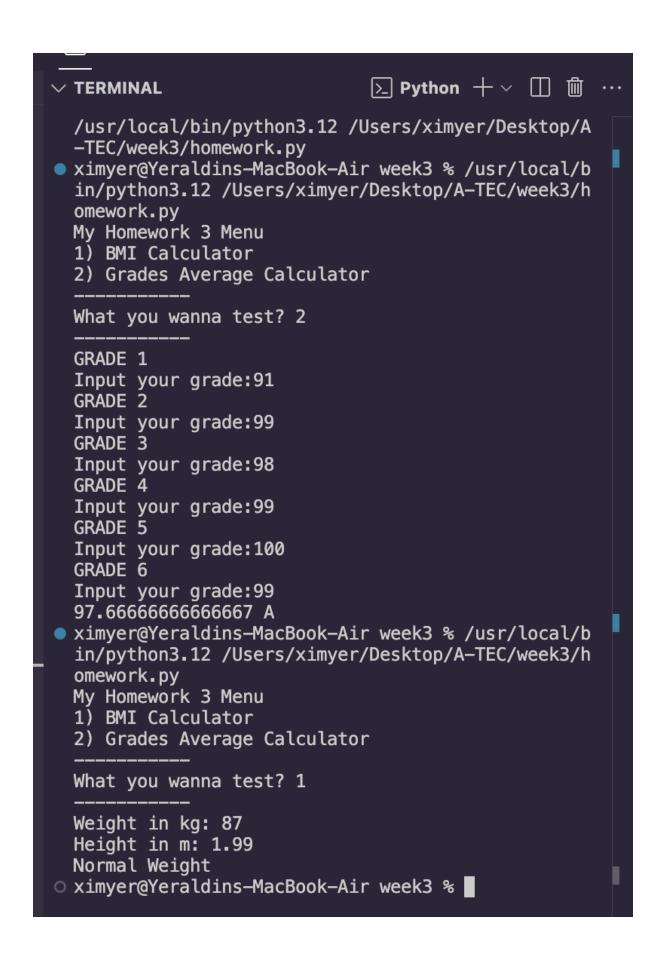
Test Case:

- Weight = 56
- Height = 1.45
- BMI = $56 / (2.1025) = 26.66 \rightarrow Overweight$



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