

# *Comprehensive Python course for AI*

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## *Exercises 7 && 8*

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*Deadline: 2023 26 October*

*Score: 550*

2023 18 October

# *Comprehensive Python course for AI*

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## *Exercises 7*

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*Score: 350*

## *Question 01 (Function)*

100

- ❖ **define two lists that one of them is strings and another is float, change values of both of them to int and create a list that is sum of them. use map function and lambda.**

## *Question 02 (Function)*

120

- ❖ **Write a Python program where users input two numbers and choose an operation (+, -, \*, /, \*\*). Use lambda functions for calculations. If division is chosen and the second number is zero, replace it with one, notify the user, and proceed. The program should handle invalid operations gracefully. This program should be repeated until user write “exit”.**

## *Question 03 (Function)*

130

❖ Write question of exercise 6 by function.

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## *Exercises 8*

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*Score: 200*

## Question 01 (Dictionary)

100

- ❖ Below list is information of a product, change this list to dictionary and answer to questions?

```
product = ['Apple iPhone', 999.99, 'Space Gray', 'July 2021']
```

1. What is the name of the product?
2. What is the price of the product?
3. What is the color of the product?
4. When was the product released?
5. Can you change the color of the product to 'Silver'?
6. Create a list with 4 products buy this structure.

## Question 02 (Dictionary)

100

- ❖ **create a dictionary named `student\_grades` containing three students' names as keys and their grades as values. Perform the following:**
  - ✓ add two new students with their grades to `student\_grades`, names are unique.
  - ✓ Delete any students from `student\_grades` who have grades below 10.
  - ✓ Get a name from the user If the user's name is in the dictionary of students, get a new grade and change the student's grade.
  - ✓ Show the average scores of all students.



# Thanks

**Good Luck!**

Don't give up on your dreams 😊