assignment-2

February 18, 2024

[56]:
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# Solution for Question 1

"""Given the names and grades for each student in a class of N students, store␣
 ↪them in a nested list and
print the name(s) of any student(s) having the second lowest grade.

Note: If there are multiple students with the second lowest grade, order their␣
 ↪names alphabetically
and print each name on a new line."""


#Creating records list :

records = [["Ram", 10.0], ["Shyam", 40.0], ["Geeta", 80.0], ["Neeta", 40.
 ↪0],["Shiva",70.0],["Das",40.00]]

# Extracting grades from records list:

grades = [record[1] for record in records]

# Finding second lowest grades:

second_lowest_grade = sorted(grades)[1]

# Finding students with the second lowest grade:

second_lowest_students = [record[0] for record in records if record[1] ==␣
 ↪second_lowest_grade]

# Organizing student names alphabetically:

second_lowest_students.sort()

# Printing student names:

for student in second_lowest_students:
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    print(student)
```

```
Das
Neeta
Shyam
```

[64]:
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# Solution for Question 2

"""Given an array of integers nuts and an integer target, return indices of the␣
 ↪two numbers
such that they add up to target. You may assume that each input would have␣
 ↪exactly one solution
and you may not use the same element twice. You can return the answer in any␣
 ↪order."""


def A(nums, target):

# Looping through all elements in the list

    for i in range(len(nums)):

# Looping through elements after the current one

        for j in range(i + 1, len(nums)):

# Checking if the sum matches to the target

            if nums[i] + nums[j] == target:

                return [i, j]

# Checking with diff example values

nums1 = [2, 7, 11, 15]
target = 9
result = A (nums1, target)
print(result)

nums2 = [9, 1, 3, 8]
target = 9
result = A (nums2, target)
print(result)
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[0, 1]
[1, 3]
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