

Assignment 2:

Question 1 answer:

```
def second_lowest_grade(records):
    grade_map = {}
    for name, grade in records:
        if grade in grade_map:
            grade_map[grade].append(name)
        else:
            grade_map[grade] = [name]

    grades = sorted(grade_map.keys())
    second_lowest_grade = grades[1]
    return sorted(grade_map[second_lowest_grade])

records = [
    ["chi", 20.0],
    ["beta", 50.0],
    ["alpha", 50.0]
]

second_lowest_names = second_lowest_grade(records)
for name in second_lowest_names:
    print(name)
```

Question 2 answer:

```
def two_sum(nums, target):  
    num_map = {}  
    for i, num in enumerate(nums):  
        complement = target - num  
        if complement in num_map:  
            return [num_map[complement], i]  
        num_map[num] = i  
  
nums = [2, 7, 11, 15]  
target = 9  
result = two_sum(nums, target)  
print(result)
```