ASSIGNMENT 2

1. Given the name and grades of each students in a class of N students, store them in a nested list and print the name of student having second lowest grade. If there are multiple students with second lowest grade then order their name alphabetically and print each name in new line.

CODE:

```
students = [
   ["Rinki", 87],
   ["Aarav", 88],
   ["Sunita", 85],
   ["David", 85],
   ["Eva", 91],
]

# Sort grades in ascending order
students.sort(key=lambda x: x[1])
        print(students)
# Find the second lowest grade
second_lowest_grade = students[1][1]

# Find all students with the second lowest grade
second_lowest_students = [student[0] for student in students if student[1] ==
second_lowest_grade]

# Sort alphabetical order
second_lowest_students.sort()

# Print the names
for student in second_lowest_students:
        print(student)
```

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

CODE:

```
def two_sum(nums, target):
   num_dict = {}  # Dictionary to store the indices of numbers

   # Iterate through the array
   for i, num in enumerate(nums):
      complement = target - num
```

```
        # Calculate the complement required to achieve the target

            if complement in num_dict:
                return [num_dict[complement], i]

            num_dict[num] = i

        return []

TEST:
        nums = [2, 5,7,15]
        target = 22
        print(two_sum(nums, target))
        #ouput = [2,3]
```