Q NO.1:

Ans:-

```
def find_second_lowest(records):
    # Sort the records based on grades
    sorted_records = sorted(records, key=lambda x: x[1])
    # Find the second lowest grade
    second_lowest_grade = sorted(set([record[1] for record in sorted_records]))[1]
    # Collect names of students with the second lowest grade
    second_lowest_students = [record[0] for record in sorted_records if record[1] ==
second_lowest_grade]
    # Sort the names alphabetically
    second_lowest_students.sort()
    return second_lowest_students


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


# Find and print the names of students with the second lowest grade
result = find_second_lowest(records)
for name in result:
    print(name)
```

Q NO.2:

ANS:-

```
def two_sum(nums, target):
    # Create a dictionary to store the indices of elements
```

```
    num_indices = {}

    # Iterate through the array
    for i, num in enumerate(nums):
        # Calculate the complement needed to achieve the target
        complement = target - num
        # If the complement is in the dictionary, return the indices
        if complement in num_indices:
            return [num_indices[complement], i]
        # Otherwise, add the current number and its index to the dictionary
        num_indices[num] = i

    # If no solution is found, return an empty list
    return []

# Example usage
nums = [2, 7, 11, 15]
target = 9
print(two_sum(nums, target))  # Output: [0, 1]
```