STUDENT REPORT

DETAILS

Name

AYESHA SADIYA

EXPERIMENT

Title

TARGET SUM

Description

You are given a list of integers, and your task is to write a function that finds the two numbers in the list that add up to a specific target sum. You need to return the indices of these two numbers.

Write a function that takes a list of Integers and a target sum as input and returns a list of two indices (0-based) of the numbers that add up to the target sum. Assume that there is exactly one solution, and you cannot use the same element twice

Sample Input:

271115

9

Sample Output:

[0, 1]

RESULT

2 / 5 Test Cases Passed | 40 %

Roll Number

TEMPBTech-EEE129

Source Code;

```
def two_sum(nums, target):
    num_to_index = {}

    for index, num in enumerate(nums):
        complement = target - num
        if complement in num_to_index:
            return [num_to_index[complement], in
    dex]
    num_to_index[num] = index

    return []

# Sample Input
    nums = [2, 7, 11, 15]
    target = 9
    result = two_sum(nums, target)
    print(result)
```