```
Logo
                                               STUDENT REPORT
DETAILS
  Name
   N SUCHITRA
  Roll Number
    3BR23CS107
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.
                                                                                                                        351013E
    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]
  Source Code:
    def two_sum(nums, target):
      num_to_index = {}
      for i, num in enumerate(nums):
        complement = target - num
        if complement in num_to_index:
          return [num_to_index[complement], i]
        num_to_index[num] = i
      raise ValueError("No two numbers add up to the target sum.")
    nums = list(map(int,input().split()))
    target = int(input())
    indices = two_sum(nums, target)
    print(indices)
RESULT
  5 / 5 Test Cases Passed | 100 %
```