**Step 1:-Understand the problem**

1. Can we restate the problem in our own words?

**Find the index of the elements of the numbers in the list such that the sum of those numbers is equal to the given target**

1. What are the inputs that go into the problem?

**Arrays of type int**

1. What are the outputs that come from the problem?

**List of size two containing the index of the required elements**

1. Can the outputs be determined from the inputs? In other words do we have enough information to solve this problem?

**yes**

1. What should I label the important piece of data that are the part of a problem?

**Already labelled**

**Step 2:-Explore examples**

1. Start with simple examples

[2,7,11,15], target = 9

**[0,1]**

1. Progress to more complex examples
2. Explore examples with empty
3. Explore the examples with invalid inputs

**Step 3:-Break it down**

**Step 4:-Solve/Simplify**

* Find the core difficulty

**Large number**

* Temporarily ignore that difficulty
* Write a simplified solution
* Then incorporate that difficulty

**Step 5:-Look back refractor**

1. Can we check the result?
2. Can we drive the result differently?
3. Can we understand it at a glance?
4. Can we use the result or method for some other problem?
5. Can you improve the performance of your solution?
6. How other people solve this problem?