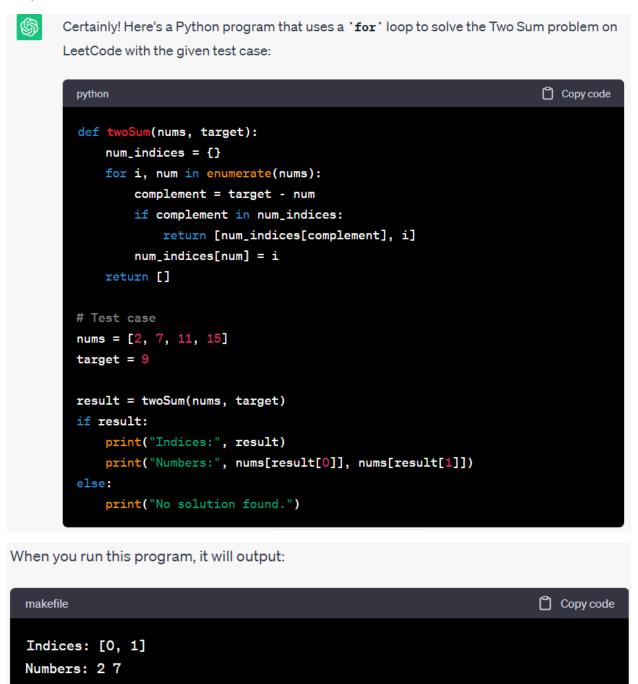
Step 1: Ask ChatGPT

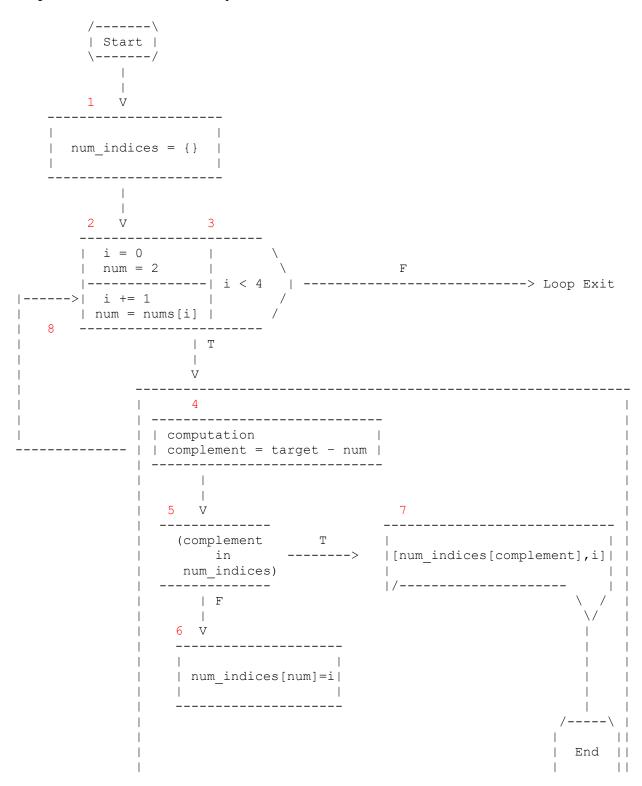


Step 2: Study ChatGPT's Python code and explanation.

The program will loop over the list number by number. If the target - number does not exist in the dictionary that has the number and its position in it, the program will save the number and its position to the dictionary; otherwise, the program will retrieve the

corresponding position of the target - number and return it together with the position of the number.

Step 3: Convert ChatGPT's Python code into a flowchart.



| \----/ | |------|

Step 4: Verify your flowchart with a trace table.

	RAM						screen
Step	i	num	i < 4	complement	complement in num_indices	num_indices	
1						{}	
2	0	2					
3			T				
4				7			
5					F		
6	<u>-</u>					{2:0}	
8	1	7					
3			Т				
4	<u>-</u>			2			
5	[				Т		
7	[					i i	[0, 1]

Step 5: Using any Python IDE to test the Python code with the following test cases:

