Challenge A: Array Reversal:

Problem Domain :
In this challenge, I will declare a function that takes an array and returns it in reverse order.

Algorithm:

1. First, I will create an empty array to store the reversed items.
2. Then, I will use a loop that starts from the last index of the original array (i.e., index[length - 1]) and iterates backward to the first index (index[0]), pushing each item into the new array.

Visualization:
Let's say the input array is: [index[0], index[1], index[2], index[3], index[4]]
Step 1: Initialize reversedArray = []
Step 2:
Start looping from the last index to the first:

- i = 4 → push array[4] → reversedArray = [index[4]]
- i = 3 → push array[3] → reversedArray = [index[4], index[3]]
- i = 2 → push array[2] → reversedArray = [index[4], index[3], index[2]]
- i = 1 → push array[1] → reversedArray = [index[4], index[3], index[2], index[1]]
- i = 0 → push array[0] → reversedArray = [index[4], index[3], index[2], index[1], index[0]

Code :