Weekly assignments

Week-1

- Brush up the fundamentals of your favorite programming language
 - Logical operators
 - Conditional operators
 - Data types
 - Control statements (if..else etc.)
 - Native/Built-in Data structures (Array etc.)
 - Loop
- Watch this video: https://www.youtube.com/watch?v=w0NN-mJWowo
 And note down the key points which you think helped Sohag vai and his friends to be successful in life.
- Solve the following problems:
 - Write a code to find 'minimum' value from a list of n numbers, where 1 <= n <=
 1000 and the numbers can be any integers.

For example, if n=5 and the list is: 1, 6, 8, 10, 999

The result should be: 1

- Write a code find the 'longest string' from a list of strings.
 - For example if the given strings are: 'I', 'love', 'my country', 'very', 'much'

The result should be: 'my country'

• Convert a positive decimal number to it's binary representation.

For example, if the given decimal number is: 8

The result should be: 1000

- Given two numbers x and n, find the value of x^n (x to the power n)
- Given a sentence, keep the order of the words same, but reverse the characters of each word.

For example, if the given sentence is: 'I love programming'

The result should be: 'I evol gnimmargorp'

- https://www.hackerrank.com/challenges/handshake/problem?isFullScreen=true
- o https://leetcode.com/problems/palindrome-number/
- https://www.interviewbit.com/problems/reverse-the-string/
- https://leetcode.com/problems/two-sum/
- o https://leetcode.com/problems/contains-duplicate/
- https://leetcode.com/problems/max-consecutive-ones/
- https://www.interviewbit.com/problems/fizzbuzz/

Week-2

- https://www.hackerrank.com/challenges/counting-valleys/problem
- https://www.hackerrank.com/challenges/strange-advertising/problem
- https://leetcode.com/problems/two-sum-ii-input-array-is-sorted/
- https://leetcode.com/problems/first-unique-character-in-a-string/
- https://leetcode.com/problems/find-all-duplicates-in-an-array/
- https://leetcode.com/problems/valid-anagram/
- https://leetcode.com/problems/plus-one/
- https://leetcode.com/problems/valid-palindrome/
- https://www.hackerrank.com/challenges/arrays-ds/problem
- https://www.hackerrank.com/challenges/array-left-rotation/problem
- https://www.hackerrank.com/challenges/sock-merchant/problem
- https://www.hackerrank.com/challenges/drawing-book/problem

Week-3

- https://leetcode.com/problems/roman-to-integer/
- https://leetcode.com/problems/majority-element/
- https://leetcode.com/problems/contains-duplicate-ii/
- https://leetcode.com/problems/missing-number/
- https://leetcode.com/problems/happy-number/
- https://leetcode.com/problems/merge-similar-items/
- https://www.hackerrank.com/challenges/flipping-bits/problem
- https://www.hackerrank.com/challenges/mini-max-sum/problem
- https://www.hackerrank.com/challenges/time-conversion/problem
- https://www.hackerrank.com/challenges/countingsort1/problem?isFullScreen=true
- https://www.hackerrank.com/challenges/countingsort2/problem?isFullScreen=true
- https://www.hackerrank.com/challenges/find-the-median/problem?isFullScreen=true

Week-4

- https://www.hackerrank.com/challenges/staircase/problem?isFullScreen=true
- https://leetcode.com/problems/spiral-matrix/
- https://www.hackerrank.com/challenges/diagonal-difference/problem?isFullScreen=true
- https://www.hackerrank.com/challenges/insertionsort1/problem?isFullScreen=true
- https://www.hackerrank.com/challenges/insertionsort2/problem?isFullScreen=true
- https://www.hackerrank.com/challenges/2d-array/problem?isFullScreen=true
- https://www.hackerrank.com/challenges/dynamic-array/problem?isFullScreen=true
- https://leetcode.com/problems/remove-duplicates-from-sorted-array/
- https://leetcode.com/problems/pascals-triangle/
- https://leetcode.com/problems/pascals-triangle-ii/
- https://leetcode.com/problems/merge-sorted-array/
- https://leetcode.com/problems/third-maximum-number/
- https://leetcode.com/problems/move-zeroes/
- https://leetcode.com/problems/reshape-the-matrix/
- https://leetcode.com/problems/find-pivot-index/