Unit-2 : Exercises:

Arrays:

Lab Experiment 2:	Objectives to check : iterating array using for, if
Write a JavaScript program to find the most frequent item of an array.	
Lab Experiment 3:	Objectives to check : Arrays.forEach(), includes(), push()
Write a JavaScript program to remove duplicate items from an array	
Lab Experiment 4:	Objectives to check : Math.floor(), while loop, if, ===
Write a JavaScript program to perform a binary search.	
Lab Experiment 7:	Objectives to check : for, if
Write a JavaScript program to sort a list of elements using Quick sort.	
Lab Experiment 8:	Objectives to check : for, if
Write a JavaScript program to implement Bubble Sort.	
Exercise	Objectives to check : while loop, length property, push(), splice()
Write a JavaScript function to move an array element from one position to another. Input 1: 10 20 30 40 50 0 2 Output 1: [20, 30, 10, 40, 50] Input 2: 10 20 30 40 50 -1 -2 Output 2: [10, 20, 30, 40, 50]	
Exercise	Objectives to check: map()
Write a Javascript code to perform squares on each element in array and print the result in array format. Input : 1 2 3 4 5 Output : [1, 4, 9, 16, 25]	
Exercise	Objectives to check: reduce()
Write a Javascript code to get product of each element in array and print the result Input : 1 2 3 4 5 Output : 120	

Strings:

Lab Experiment 1:	Objectives to Check : string property length, string methods like charAt(),toUpperCase(), toLowerCase()
Write a JavaScript program which accepts a string as input and swap the case of each character. For example if you input 'The Quick Brown Fox' the output should be 'tHE qUICK bROWN fOX'.	
Exercise	Number.parseInt()and slice()
Given a numbers in string, print it from left to right 'n' number of times Note : If the given input is NaN or given value is <=0, print -1 Ex 1: 459 //Output 4444 55555 999999999 Ex 2: -10 Output: -1 Ex 3: four Output: -1	

1. Display 5 letter word & last letter should be vowel?
2. Display words that begins with T and ends with vowels?
3. Find the length of words whose size should be 4?
4. Display all words which contains First letter is Capital?
5. Select below example & Use look behind then print words containing (**the**) use ignore case?
6. Mobile Number starts with 8 or 9 & total digit should be 10
7. First Character Uppercase contains lower case alphabets only 1 digit allowed in between
8. Email id
9. Password contains Min length 7 & max length is 15 contains at least special symbol, upper & lower case?
10. Starts & ends with vowel

Sets and Maps:

Exercise	Objectives to Check : Set() and … operator
Write a function that takes an array as input and returns a new array containing only the unique elements using a Set.	
Exercise	**Objectives to Check : Set() and has(), converting array to Set**
Write a function that checks if a given element is present in a set. Return true if the element exists, otherwise return false.	
Exercise	**Objectives to Check : Set() and for..of**
Given a set of strings, write a function that iterates through the set and logs each string to the console.	