1. Write a JavaScript program to determine whether a given year is a leap year in the Gregorian calendar.
2. Write a JavaScript program to compute the sum of the two given integers. If the two values are same, then returns triple their sum
3. Write a JavaScript program to compute the absolute difference between a specified number and 19. Returns triple their absolute difference if the specified number is greater than 19.
4. Write a JavaScript program to check two given numbers and return true if one of the number is 50 or if their sum is 50
5. Write a JavaScript program to check whether a given integer is within 20 of 100 or 400
6. Write a JavaScript program to create a new string adding "Py" in front of a given string. If the given string begins with "Py" then return the original string.
7. Write a JavaScript program to remove a character at the specified position of a given string and return the new string
8. Write a JavaScript program to create a new string from a given string changing the position of first and last characters. The string length must be greater than or equal to 1
9. Write a JavaScript program to create a new string from a given string with the first character of the given string added at the front and back
10. Write a JavaScript program to check whether a given positive number is a multiple of 3 or a multiple of 7
11. Write a JavaScript program to get the current date.  
    Expected Output :  
    mm-dd-yyyy, mm/dd/yyyy or dd-mm-yyyy, dd/mm/yyyy

Please Note Create and Folder and make 11 files each with solution of the above mentioned questions.

Please use following programming convention:

Declare variable as **myVeriableName,**

Method Name: **myFunctionName(),**

Semi-colon: at the end of statement

ASSIGNMENT #2

Date: 07/21/2022 Thursday

Write a JavaScript program to generate a hexadecimal code of given key.

Write a JavaScript program to converts a comma-separated values (CSV) string to a 2D array

Write a JavaScript program to converts a specified number to an array of digits

Write a JavaScript program to filter out the specified values from a specified array. Return the original array without the filtered values

Write a JavaScript program to combine the numbers of a given array into an array containing all combinations

Write a JavaScript program to extract out the values at the specified indexes from a specified array.

Write a JavaScript program to generate a random hexadecimal color code.

ASSINGMENT #3

Date 07/23/2022

Write a JavaScript program to round a number to a specified amount of digits.

Write a JavaScript program to apply a function against an accumulator and each element in the array (from left to right), returning an array of successively reduced values

Write a JavaScript program to redirect to a specified URL.

Write a JavaScript program to get an array of lines from the specified file.

Write a JavaScript program to convert an asynchronous function to return a promise

Write a JavaScript program to check if the provided argument is a valid JSON.

Write a JavaScript program that will return 1 if the array is sorted in ascending order, -1 if it is sorted in descending order or 0 if it is not sorted

Write a JavaScript program that will return true if an object looks like a Promise, false otherwise.

Write a JavaScript program to get a boolean determining if the passed value is an object or not.

Write a JavaScript program to get a string of the form HH:MM:SS from a Date object.

Write a JavaScript program that initializes an array containing the numbers in the specified range where start and end are inclusive and the ratio between two terms is step. Returns an error if step equals 1.

Write a JavaScript program to remove elements from an array for which the given function returns false.

Write a JavaScript program to iterate over all own properties of an object in reverse, running a callback for each one.

Write a JavaScript program to generate an array, containing the Fibonacci sequence, up until the nth term.

Assignment No# 4

Suppose you have 3 Services Hospital, Police, and Airport Security System.

You need to create Unique ID for each Query being made to one of above-mentioned Departments.

When I give the system previous ID it should create the new ID as:

Example

**H10000000123**

Here,

H1 is service identification.

0000000 transaction ID sequence

123 random numbers

Another one,

**H1A234Cab445**

Here,

H1 is service identification

A234Cab transaction ID sequence

445 random numbers

Each character of transaction ID sequence should start from numeric values (starting from 0 and ending on 9) then will use small alphabets (starting from a and ending on z) and then finally should use capital alphabets (starting from A and ending on Z).