Internship Tasks

Javascript Tasks:
Phase 1 (functions,objects,numbers methods, string methods):

- let x = 100, y = 30 , z= '50' find x+y+z

- let x = 100, y = "10" find x+y x/y x*y

- let x = "100", y = "30" find x+y x/y x*y

- let x = "100", y = "john" find x+y x/y x*y

- write a function to find the volume of cylinder when height (10 units) and radius(4 units) is given

- create multiple objects(at least 3) about laptop and its properties and print each object in a single line using a function

- Find the position of a word "and" and replace it with "or" in string "Please visit Microsoft and W3Schools"

- Find and print the position of a word "Genius" and print the word from a string "Bright, Intelligent, Genius, Smart"

- Convert Smart to Uppercase and Intelligent to Lowercase "Bright, Intelligent, Genius, Smart" and print the entire string

- Write a program to convert given value to uppercase.

Phase 2 (Arrays, dates, loops, conditions):

- Create an array of strings of any length(min. 5 elements)
  - Find its length
  - Using array methods,
    - Add a new element
    - Remove an element from both ends
    - Add 3 more elements at 2nd index
    - Remove an element at 1st index
    - create one more array and concat with existing array
  - Print every element using both array iteration method and loops
  - Print only first 3 elements of an array

- Given an array of numbers [3, 43, 5, 29, 50, 23, 4, 9]
  - Find index of 23
  - Find max and min of the above array
  - Print a new array with elements which are greater than 25
  - Write a program to find sum of elements
  - Write a program to update the last element of given array to value 3 and print it.

- Print the current date in DD/MM/YYYY format

- Convert the current date to starting of the present month(not format)

- Write a function to print random value between 25 and 80

- Given an array of numbers [3, 43, 5, 29, 50, 77, 67, 121,-8,158,88,-10]
  - Write a program to create a new array which contains only odd numbers of a given array.
  - Write a program to print the count of numbers less than 10, 10 to 50, 50 to 100, more than 100
  - Similarly write a program to print the count of numbers less than 10, less than 50, less than 100, more than 100

- Write a script to print its multiplication table of a number.

- Write a script to check and print whether it is a prime number or composite ?

- Write a script to find factorial of a number and print its factorial

- Write a script to print stars in a sequential pattern using loops
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Note: More problems/tasks will be added

Phase 3 (JSON, advanced functions, advanced objects)

Overall Javascript Questions (ADD HERE):

- Print the length of string without using .length property

- Find the sum of digits (ex input 153, output 9)

- Write a program to generate a six digit OTP

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- Write programs to print number from 1 to 100 except multiples of five

- Write a program to check whether a string is palindrome or not ?

- Write a program to swap two numbers using any 2 ways

- Let students= [{name: srujan, class: first}, {name: rahul, class: third},{name:venkat, class: inter}]
  studentsInfo=[{name:srujan, rollNo: 210}, {name: venkat, rollNo: 840},{name: rahul,rollNo: 420 }]
  Write a program to add rollNo of studentsInfo array to students array (to corresponding students) using both loops and array iteration methods.

- Write a program to convert a decimal number to binary and vice-versa

Tasks:
- ❏ Color Game
  - ❏ Description
- ❏ Calculator
  - ❏ Description
- ❏ Dynamic Math Expressions
  - ❏ Description
- ❏ Login (including form restrictions and password policy...etc)
  - ❏ Description
- ❏ Cricket Game Mimic
  - ❏ Description
- ❏ Snake Game with HTML5 canvas. ##
  - ❏ Description
- ❏ Todo list with Filters(name wise, date wise, prioritise wise..etc)
  - ❏ Description
- ❏ Slide show the images by using setTimeOut() and clearTimeOut()methods.
  - ❏ Description
- ❏ Cricket mimic gameShuffled Images Game
  - ❏ Description