**Day 2 Lab Assignments**

**Please do the following assignments:**

1. Create array that contain some tips about JavaScript (Array of 10 strings, each string is tip about JS), and show random tip for the user each time he opens the page "Tip of the day".
2. Make a button that display the current date and time in local format on the page.
3. Ask the user to enter his Email, and use function strings (Don’t use RegExp) to check if the Email contains @, and not in the first or last index.
4. Prompt user to enter his Full Name and email address, and use regular expression only (don't use string functions) to validate his input to make sure it is in correct format using these criteria:
5. Full Name should be characters only (without numbers or special characters) and has the following structure:
   * Characters (alphabetic only) more than 3.
   * Then one space.
   * And finally so me other characters (alphabetic only) more than 3
   * This pattern may be repeated, so it can contain other spaces but after each space must be 3 alphabetic characters at least (like full name, each part is 3 letters at least, and separated by a space).
   * And shouldn’t start or end with spaces or special characters.
6. Email must be from Egypt (.eg domain), for example [name@domain.com.eg](mailto:name@domain.com.eg) (.com.eg, .net.eg, .edu.eg or .org.eg [.eg is a must], don’t allow any other domains).
7. Make the prompt appear to the user for each of the inputs until he enters correct format (Repeat the prompt for each wrong input of each one until he enters it correctly).
8. Create an array of objects that hold student name along with his degree (Each element of the array is an object has 2 properties: Name and Degree).
   1. Find **student Name**, who got degree between 90 and 100 [Use find()].
   2. Print **students names**, who got a degree less than 60 [Use filter()].
   3. Add a new student to the array [Use push()],()], and then use for…in to print all elements of the array.
   4. Remove the last student of the array [Use pop()], and then use for…of to print all elements of the array.
   5. Sort the array alphabetically based on the student name.
   6. Use splice() function to add 2 new students after the second element of the array [Bonus].
   7. Use splice() function to remove 1 student after the third element in the array [Bonus].
9. Use Try catch and onError to handle any errors in your page.

**Bonus assignments:**

1. Make a function that takes date string as a parameter, and returns the Day name (Saturday, Sunday,…) of the given date.
2. In assignment No.5, ask the user to enter his mobile number in International format for the Egypt Code (00201xxxxxxxxx) format use regular expression to validate Mobile no. entered by the user, to be 14 numbers (not letters), and starts with: Egypt code (002) and after it (010 or 012 or 011), then the rest of the number (8 digits).
3. In assignment No.2 calculate the user’s Age (In years, Months, days) from his entered birth date and print it to the page (you need to handle the case if for example the entered date is 30-12-2000, and the current date is 1-11-2018, so the days and months of the age shouldn’t appear as negative numbers).
4. Ask the user to enter his birth date, and then choose the color he want to use to display his birthdate with it (Give him choices: (r) red, (b) blue, (g) green) and he enters the letter of color and use associative array to map his entered letter to color (if he entered r, use red color,…etc), and then display this text: "Current Date:" in bold font, and next to it the current date value in local format using the color he choose. (Don’t use HTML tags, and don't use if condition or switch to check the color).
5. In previous assignment No, make the function if user entered date format is correct initialize the date object with this date and make the function return the date object, and if it isn’t in correct format throw an exception, and use another function to call the previous function and handle this exception using (Try Catch), and show alert that shows description for the error if the date entered by user isn’t valid.
6. Try to handle the previous exception using onError Event.

**<Script> document.write(“Thank YOU”) </Script>**