**ASSIGNMENTS *(create a .js file for each assignment and add it inside an HTML page)***

1. Write JS code to display all the prime numbers between 5 and 50. Log the output to the browser console.
2. Write JS code to reverse the digits of a number. Store the number in a variable.
3. Write JS code to find the sum of all even numbers in an array of 10 numbers. In case there are no even numbers, log a message to the browser console saying **No even numbers found.**
4. Write JS code to find the factorial of each number inside an array of 5 elements. The factorial of each number must then be stored in another array of the same size. Print the result array on the console.
5. Write JS code to find the number of vowels in the string **TAVANT.** If the vowel is repeated, it must be counted as 1.
6. Write JS code to create an array of 5 strings. Convert the last character of each string to uppercase and store the output in the same array. Print the final array.
7. Write JS code to determine how many digits are repeated in the number **7312140905.**
8. Create an HTML page containing two textboxes for inputting the username & password respectively. Add a button titled **Sign In**. On the button click, invoke a JS function which checks if the username and password are **TAVANT** *(case insensitive match)* and if so, redirects them to [**www.google.com**](http://www.google.com)in a new window without a menu bar and address bar. If the username and/or password is not **TAVANT,** then an error message in dark red color must be displayed beneath the appropriate textbox displaying a suitable error message.
9. Create an HTML5 page which displays an image with the size 200x200 pixels. When the mouse is hovered on the image, the image must zoom to 800x800 pixels. When the mouse is moved out of the image, the image must zoom out to 200x200 pixels.
10. Create an HTML5 page which displays a dropdown list. The drop down list must contain the following data:

*India*

*Australia*

*New Zealand*

*England*

When the user selects a country name, write JS code to display the list of cities in another dropdown list.