



Project Title — Digital-Javascript-1

Proejct Type	Project Name/ID	Hosted By TG/Acccount	Duration	Proejct Owner /Account
L1 Assignment	Digital-Javascript Assignments-1	TopGear	2 PDs	NA

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About This Project

The project is a hands-on knowledge on Javascript.

Who Is Eligible

Person who has basic knowledge of Javascript is eligible for the project.

Pre-Requisites

The pre-requisites for this project is HTML, CSS and Javascript.

Scope of Work& Deliverables

1. Coding
2. To understand executing and submission process of TopGear Training and Case study projects user can refer following documents on the portal:

https://topgear-app.wipro.com/sites/default/files/steps_to_execute_topgear_training_case_study_projects_v-1-2-1.pdf

Note:User is recommended to read this document thoroughly before starting with their respective TopGear project.

Technologies

This assignment uses Javascript to explore and learn advanced topics of script based programming.

Training Tasks

1. Assignment 1:

- i. Create a employee details form using name, employeeID, band, year of joining and location as required attributes. Use CSS to align the form elements. Validate each attribute of the form with javascript code. If every field has correct information, then allow to submit otherwise show an alert box stating the error occurred while validating form.
- ii. Pick any theme of your choice(Retail,Finance,Medicals,etc.) and develop a responsive web layout using HTML, CSS and Javascript only.
- iii. Using only HTML,CSS and Javascript, create a calculator application with all the basic operators (+ - / * %).

2. Assignment 2:

- i. Write a program that outputs all possibilities to put + or - or nothing between the numbers 1, 2, ...,9 (in this order) such that the result is always 100.
For example: $1 + 2 + 34 - 5 + 67 - 8 + 9 = 100$.

ii. Write a function that computes the list of the first 100 Fibonacci numbers. By definition, the first two numbers in the Fibonacci sequence are 0 and 1, and each subsequent number is the sum of the previous two.

As an example, here are the first 10 Fibonacci numbers: 0, 1, 1, 2, 3, 5, 8, 13, 21, and 34.

iii. Write a function that combines two lists by alternately taking elements. For example: given the two lists [a, b, c] and [1, 2, 3], the function should return [a, 1, b, 2, c, 3].

Environment

To execute this training project user can use own desktop/laptop set with essential JavaScript/HTML/CSS development environment (need GitBash tool) or can use TopGear provided VDIs (Ubuntu /MEAN) which are set for JavaScript HTML,CSS based development

Completion Criteria

- Employee should complete the project within timeline provided.
- In case user has not followed appropriate steps or job is partly finished, then project can be reopened/reverted back.
- Employee must follow all rules and tasks as instructed to avoid rejection/reopening of projects.
- Once the project is closed successfully after submission and review, user will earn # reward points and the user will be visible to appropriate practices and accounts.
- If the user has completed a Use case, project or Solution project, he/she must update his/her Wipro profile with the project details he worked on.
- User should update efforts against TopGear projects in time sheet.

Assumptions

Users joining this program have knowledge/understanding of HTML,CSS and JavaScript related programming.

Project Submission Guidelines

- Login <https://topgear.wipro.com>
- Go to UI Development → Javascript → Training Tab
- Join Digital-Javascript Assignments-1 project.
- Practice on assignment as per project specification.
- Once complete the project work, submit/check-in the same as instructed to TopGear GitLab.
- User can refer following document to understand execution and submission procedure of TopGear training and case study projects

[https://topgear-app.wipro.com/sites/default/files/steps to execute topgear training case study projects v-1-2-1.pdf](https://topgear-app.wipro.com/sites/default/files/steps%20to%20execute%20topgear%20training%20case%20study%20projects%20v-1-2-1.pdf)

References

<https://developer.mozilla.org/en-US/docs/Web/JavaScript>

<https://www.youtube.com/watch?v=yQaAGmHNn9s&list=PLA0580F01689ED379>