# JavaScript and GitHub Study Guide

## JavaScript Topics

### Functions

A function is a block of code that performs a specific task and can be called whenever needed.

### Objects

Objects are containers that store related data and functions together, like a box holding different items.

### Object Properties

Properties are the characteristics or data stored inside an object, like a person's name or age.

### Object Methods

Methods are actions that objects can perform, basically functions that belong to an object.

### Object Display

Object display means showing the contents of an object on screen or in console for debugging.

### Object Constructors

Constructors are special functions that create new objects with similar properties and methods.

### Events

Events are actions that happen in the browser like clicking a button or loading a page.

### Comparison

Comparison operators check if values are equal, greater than, or less than each other.

### If Else

If else statements make decisions in code by checking conditions and running different code blocks.

### For Loop

A for loop repeats code a specific number of times, like counting from 1 to 10.

### For In

For in loops go through all properties of an object one by one.

### For Of

For of loops go through all items in an array or list one by one.

### Loop While

While loops keep repeating code as long as a condition stays true.

## GitHub Topics

### What is Branch

A branch is like a separate copy of your code where you can make changes without affecting the main version.

### How to Create Branch

You create a new branch using the command "git branch new-branch-name" in your terminal.

### Push Code to Branch

Pushing means uploading your local changes to the online repository using "git push origin branch-name".

### What is Pull Request

A pull request is asking to merge your branch changes into the main code after review.

### How to Make Pull Request

You make a pull request by going to GitHub website and clicking "New Pull Request" button.