

# **Decision Loops and Introduction to Object Oriented Programming**

## **Week: Todo List**

### **1. Master - Decision making and loops in JavaScript as well as object oriented programming basics**

By the end of this week, you should **MASTER** these topics:

- Decision making in JavaScript
- Purpose of using loops in JavaScript
- The main kinds of loops in JavaScript ( for, while)
- Writing algorithms to solve problems using loop
- Object oriented data model and object oriented programming in JavaScript
- What is meant by object in JavaScript
- Creating objects and accessing object properties in JavaScript
- Methods (functions stored an object as properties of the object)
- JavaScript object constructors (functions that we use as blueprint to create many objects)
- Adding properties and methods to object constructors
- The most common built-in JavaScript objects (ex: String, Array, Math)

By the end of last week, you should have already watched the class videos on “Decision making and loops” and “ Introduction to object oriented programming”. You should have also listed out all of your questions.

#### **1.1. Start by working on the practice questions (5 hrs)**

- Instructions on how to complete the questions is found here:
  - [Link to your homework](#)
- Try the homework on your own first and discuss it with your groupmates
- List out the parts you don't understand and ask your groupmates when you meet in groups

#### **1.2. Complete the conditional statements and decision loops checklist items (1 hr)**

- <https://www.evangadi.com/checklist/conditional-statements>
- Mark the ones you understood as complete, and list out the parts you didn't understand for further discussion

**1.3. Before you meet your instructors in the group discussions**

- Meet with your groupmates before the group sessions with Evangadi instructors. (Please take the lead in inviting everyone for discussion)
- Try to discuss the questions you have with your groupmates

**1.4. Attend the 2 group meeting sessions with your instructors (4 hrs)**

- Discuss the remaining questions you have prepared
- Turn your camera on, share your screen and participate

**2. Prepare for week 4 - Algorithm writing (solving algorithmic problems)**

**2.1. Watch the “Algorithm writing” videos (5hrs).**

- DO NOT just watch the video. Make sure you are pausing the video and practicing on your computer
- Read the lecture note side by side
- Prepare your questions for the lecture session

**2.2. Attend the “Algorithm writing” live lectures (4hrs).**

- Read the lecture note side by side
- Prepare to ask your question