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 programing". 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 Decision Loops and Object Oriented Programming checklist (1 hr)

- Decision loops Checklist
- Introduction to object oriented programming Checklist
- 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 next week - 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