Note: this is an abstract for the syllabus and needs details for each topic in terms of concrete RoboMind or java problems which I will prepare isA

# Pre-Program

This phase can be one session

1. What is a program
2. Programming languages
   1. What is programming language
   2. Levels
      1. Lowest -> binary
      2. Higher -> more natural

Program

During this phase, we will store records for students based on problems in sessions and project, So that we can honor top X students

Also we may ask for assignments that make them search for some info on the internet to make them search for the info and don’t wait for it

1. Exploring RoboMind
2. Calling regular functions (more than one session but with different and attractive goals)
   1. Drawing names
   2. Grabbing obstacles
3. Introducing if…else (more than one session)
4. Introducing loops (more than one session)
5. Now after if/else and loop, we can think of other objectives that make them think and use the covered topics
6. Procedures (we already use them without they know e.g. forward)
7. Now it is time to shift to Judo
   1. We build our functions instead of using built in ones
   2. Main function
   3. Introducing variables
   4. Input and output
   5. Calculator to be built incrementally
      1. Single operations
      2. +, -, \*, /
      3. Multiple operations
8. Course project (don’t know now what the idea may be)