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| Session no. 2 | Duration: 90 minutes |
| **Age of students: 11-14 years old** |
| Title  *Summary:*  Development of the "Line Follower" program  Repetition and selection structures | |
| Educational goals  Basic principles of programming in blocks of repetition and selection structures  Line sensor and its functioning  Programming motors / actuators  Visualization / explanation of the code in Arduino | **Knowledge required by children to approach the session**  None |
| **Elements of assessment of children's achievements**  Correct development of the programme |
| Course of the session (steps, timeline…) – 90 minutes  10 min - Repetition structure: basic principles and its operation  10 min - Selection structure: basic principles and its operation  15 min - Connections, operation and demonstration of the line follower function  15 min - Connections, operation and demonstration of the analogue actuators function  40 min - Development of the final exercise of the line follower | |
| Layout and specific material required  Computador + Internet | **Toolkits: resources** |
| To go further, other resources | **Facilitator/teacher skills required**  Programming by blocks skills  Basic skills in arduino |