Exercises and Assignment

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Research Track I

A few additional things

Pseudocode: Pseudocode is an informal way of programming description that does not require any strict programming language syntax or underlying technology considerations.

Example:

If student's grade is greater than or equal to 60

Print "passed"

else

Print "failed"

A few additional things

Other example: Exercise 2

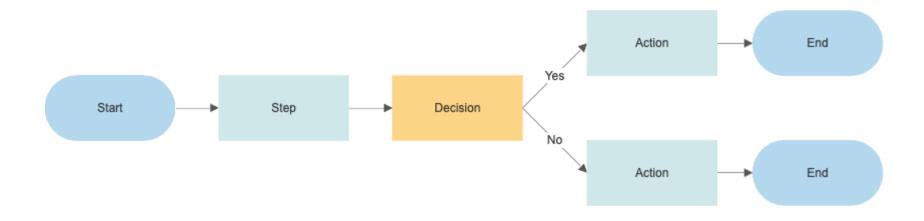
```
While True:
```

turn left

Use indentation and meaningful names!

A few additional things

The same can be done by using a flowchart



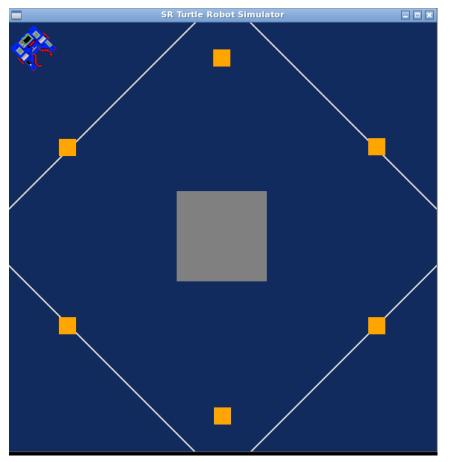
Research Track I

Assignment

Clone the repository https://github.com/CarmineD8/python_simulator and switch to the assignment23 branch and run:

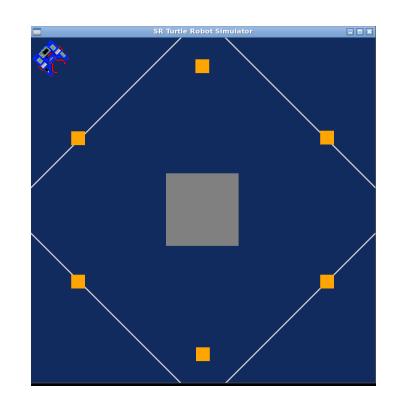
python2 run.py assignment.py

You will see this environment:



Assignment

Write a python node that controls the robot to put all the golden boxes together.



Some hints:

- you can use the code associated to each marker to know what are the boxes that have been already paired;
- you can reuse, maybe modiyfing them a little bit, the functions that you have developed during the exercises.

Research Track I

Assignment

Additional Requirements:

- Create a flowchart of your code, or describe it in pseudocode (Pseudocode Examples (unf.edu))
- Add some comments to the code
- Use functions to avoid having a single block of code
- Publish the new package on your own repository. The flowchart (or the pseudocode) should be added to the ReadMe of the repository. (consider using Markdown syntax to write your readme: Basic Syntax | Markdown Guide)

- Deadline: 12/11/2022

Evaluation

- Code performance
- Code structure and clarity
- Respect of the requirements
- Organization of the repository (e.g., README in which you describe what the code does (possibly with flowchart or pseudocode), how to run the code, possible improvements, ...)