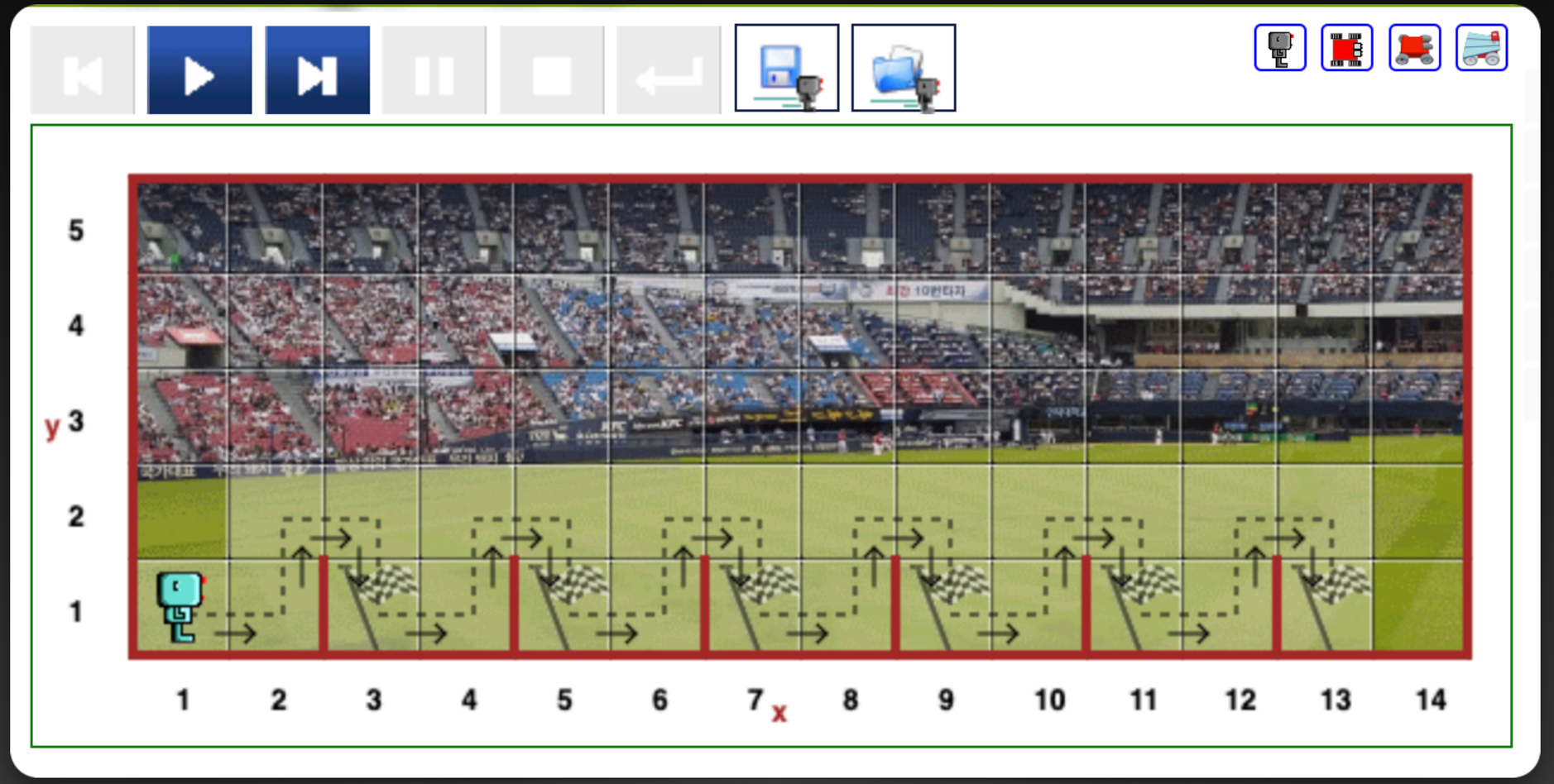
Elon's Musk-eteers

Day 1 - Robo Programming

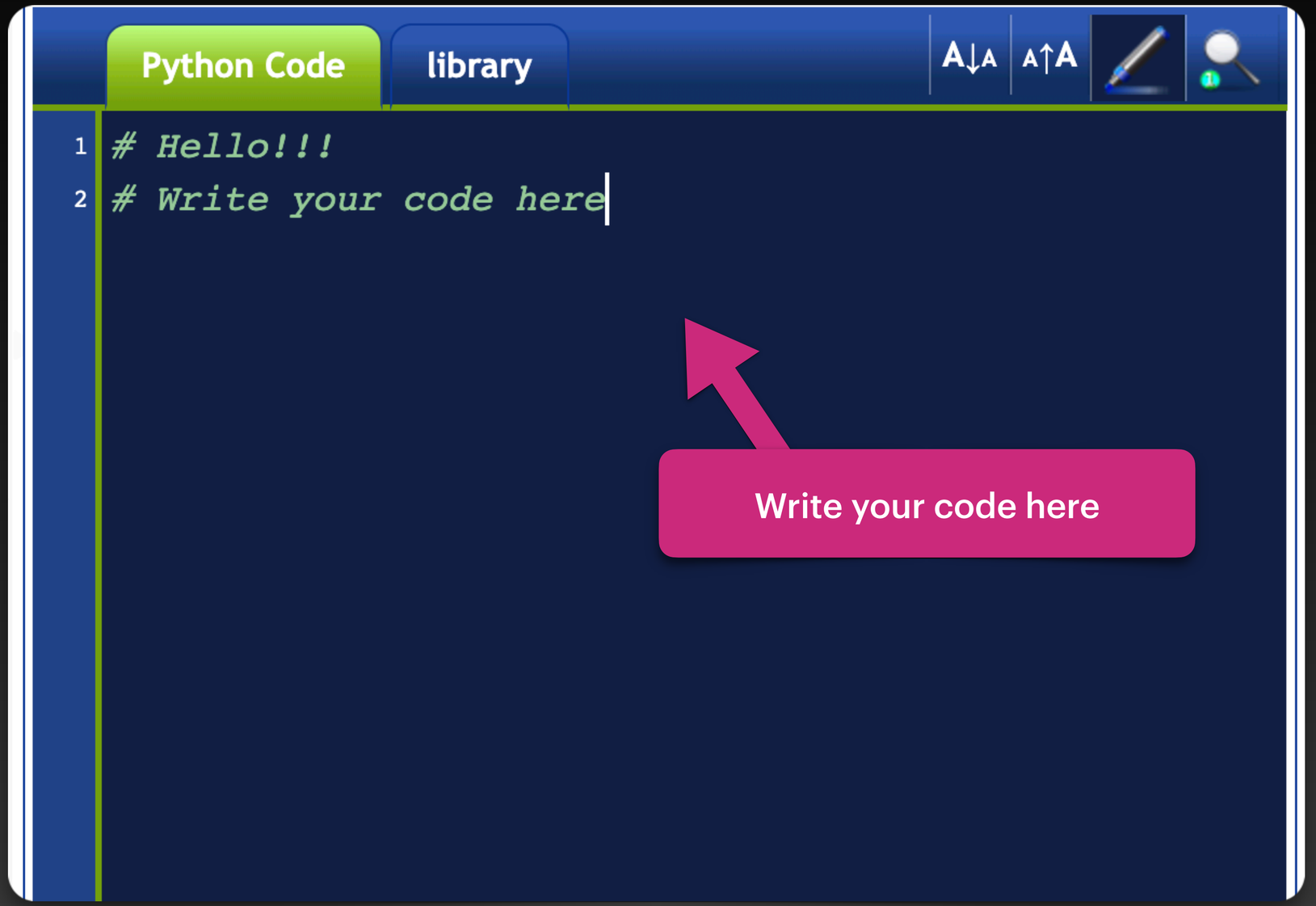
Raahim Zeeshan | 17TH Feb

The Goal

- Help the robot complete the race
- Code your instructions using the pre-built functions



How to use the website?



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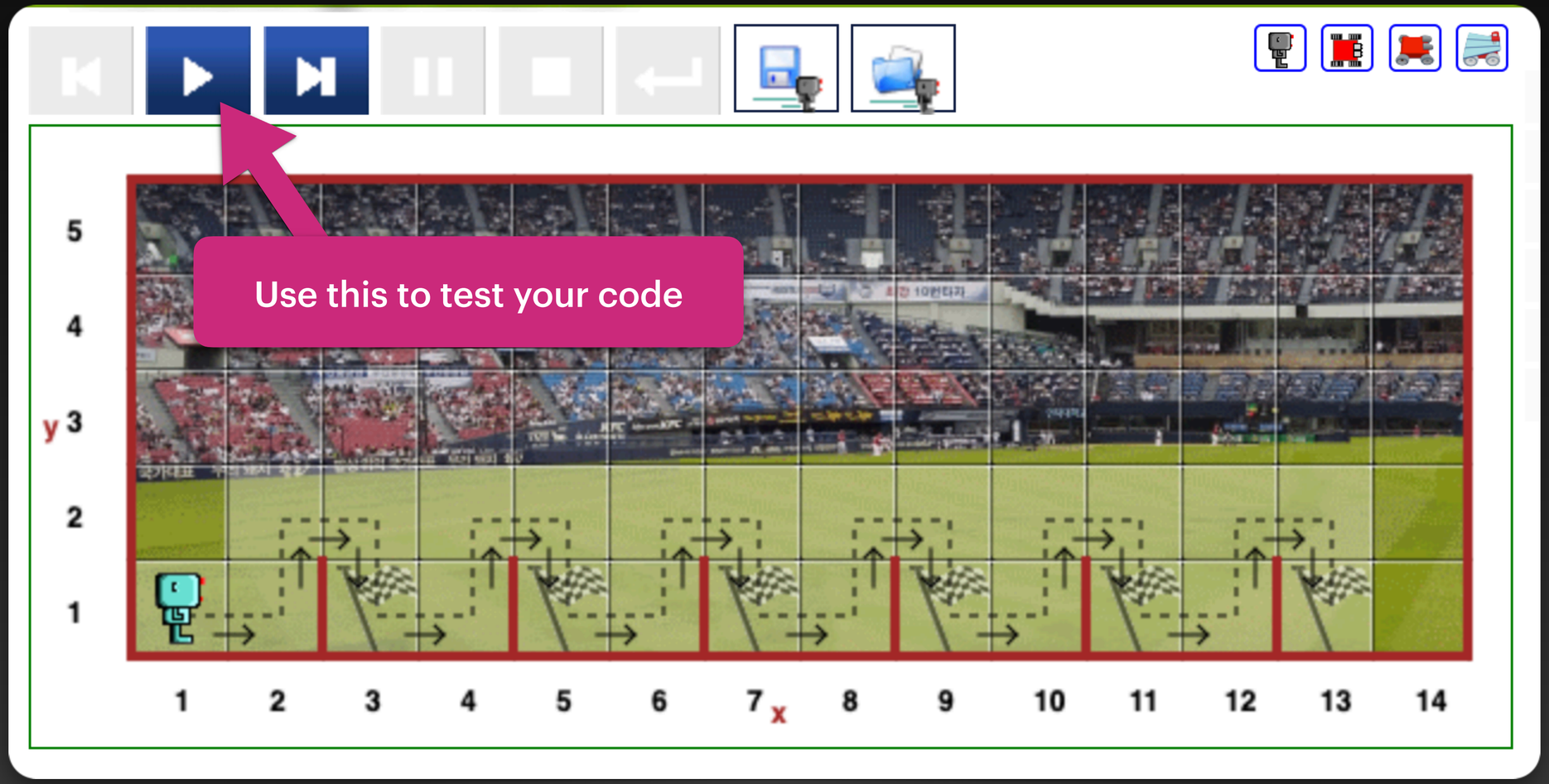
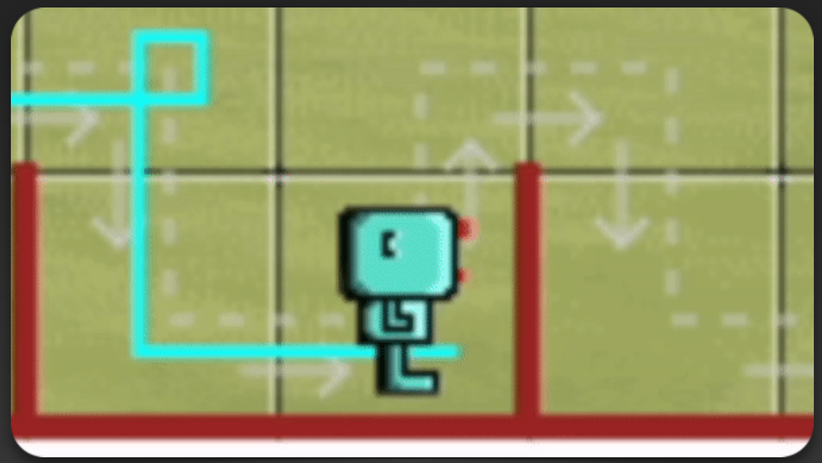


How to control your robot?

You can move your robot forward with **move()**

You can turn your robot with **turn_left()**

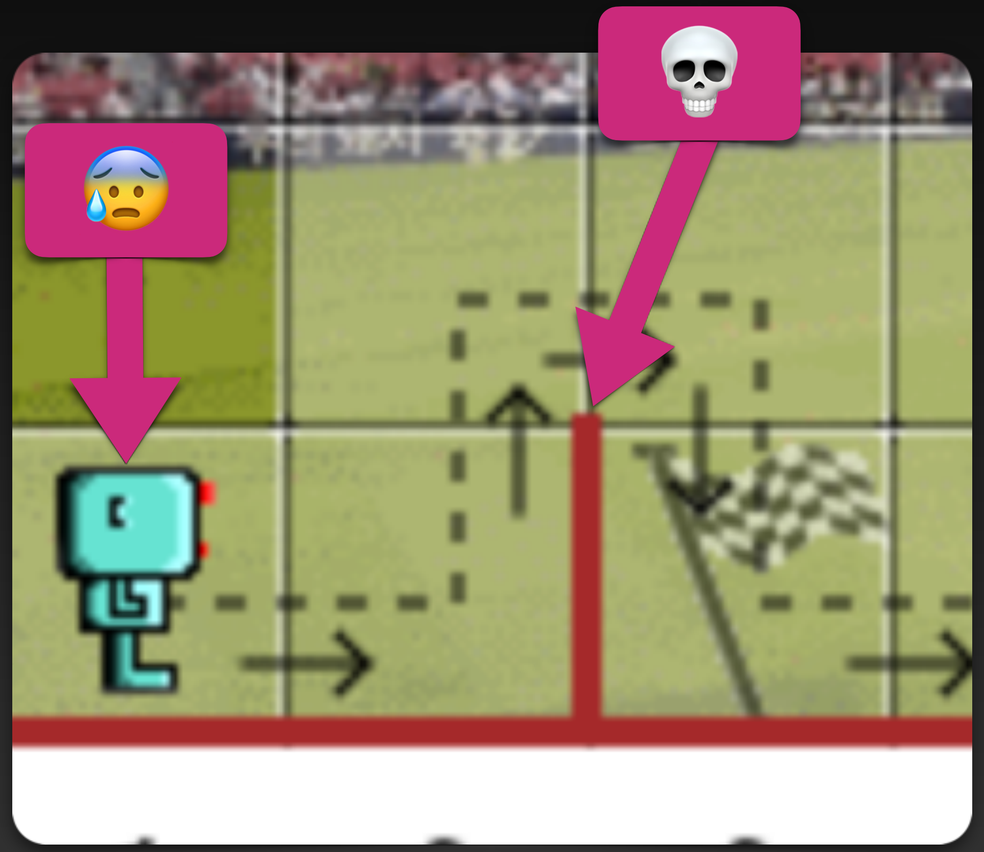
```
while not at_goal():
    turn_left()
```



```
while not at_goal():
    move()
```

Wall is Bad 🙅

- Wall = **Bad!**
- Don’t let your robot touch the wall



How to avoid a wall?

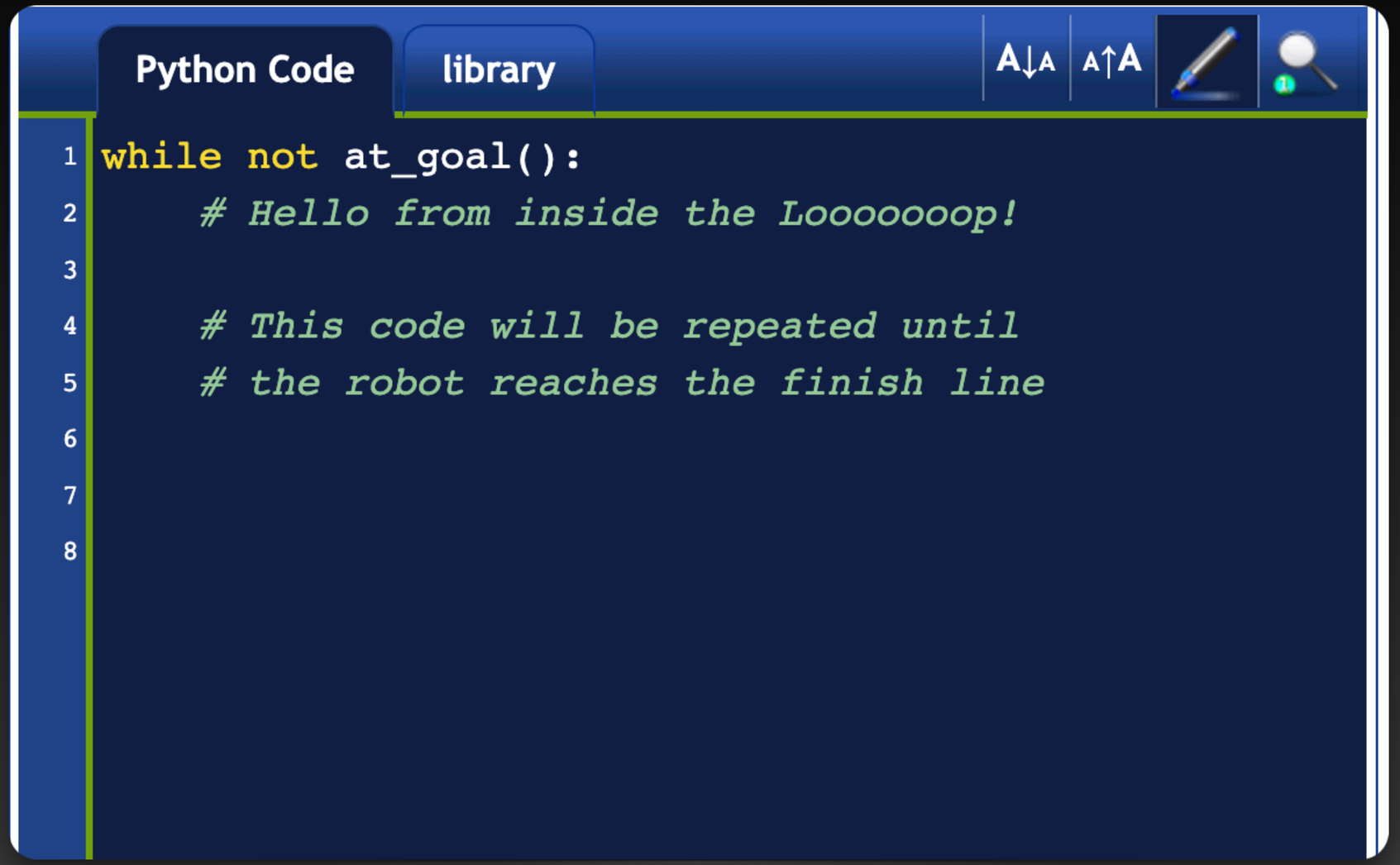
- We can use a **Conditional**
- Code inside the conditional will be executed if the condition is true

Python Code | library

```
1 while not at_goal():
2     if wall_in_front():
3         # This code will be executed if there is
4         # wall in front of the robot
5
6     if not wall_in_front():
7         # This code will be executed if there
8         # is NOT a wall in front of the robot
9
```

How to know your robot has finished?

- We can use a **While Loop**
- Code inside the Loop will be repeated until you reach the end!



Feeling Intimidated?

DONT!

We will help you out, just ask for help