

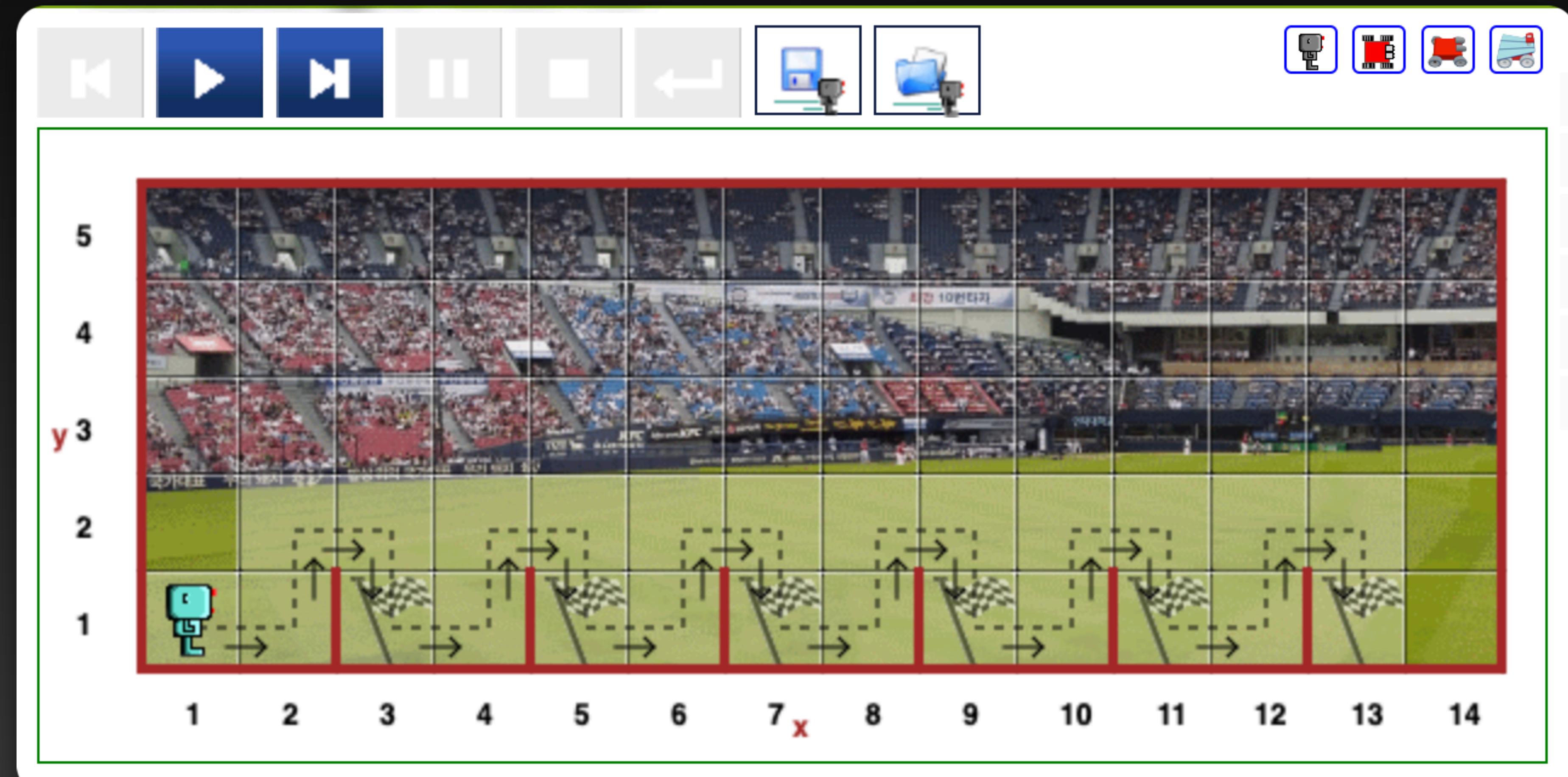
# Elon's Musk-eteers

## Day 1 - Robo Programming

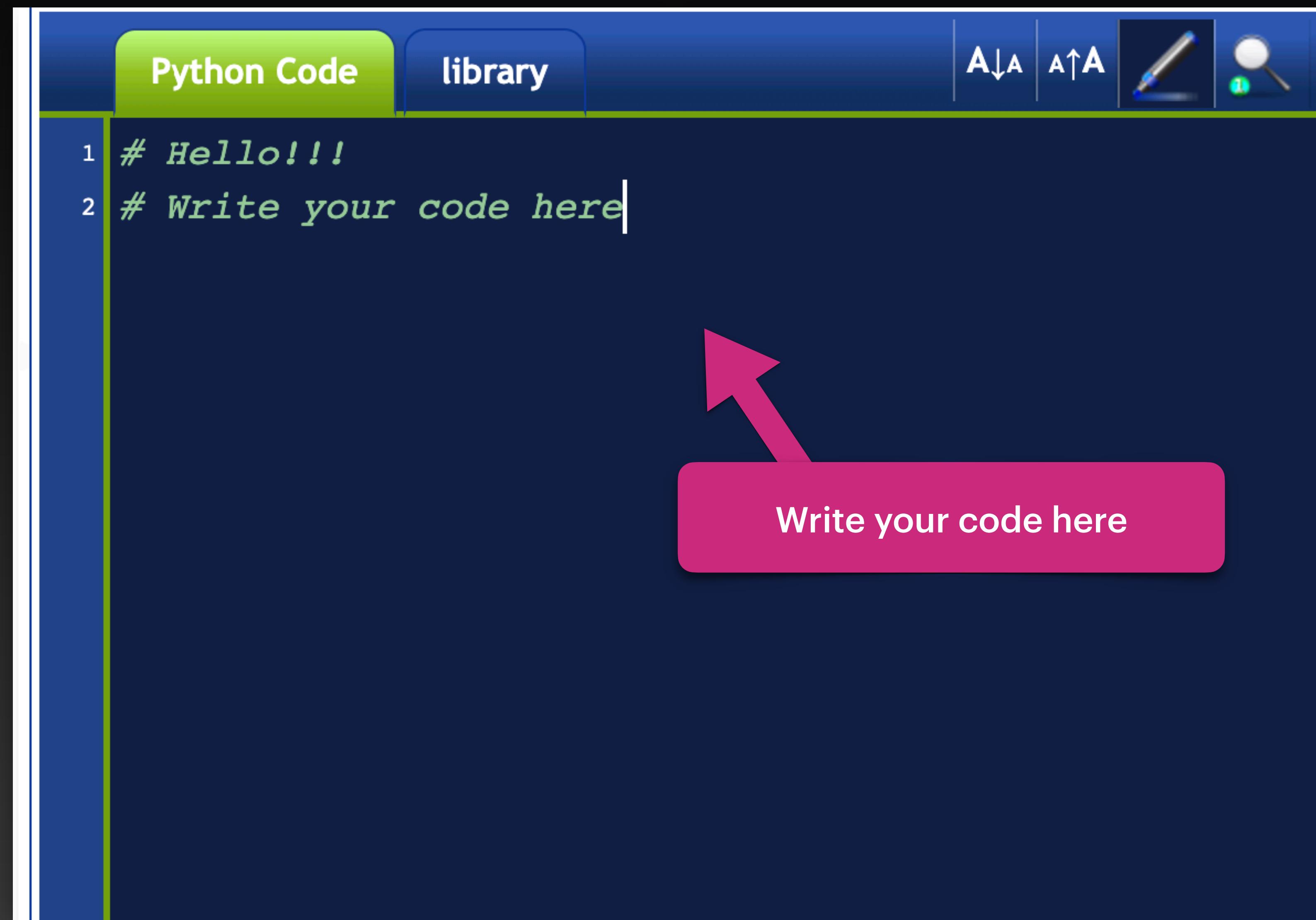
Raahim Zeeshan | 17TH Feb

# The Goal

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



# How to use the website?

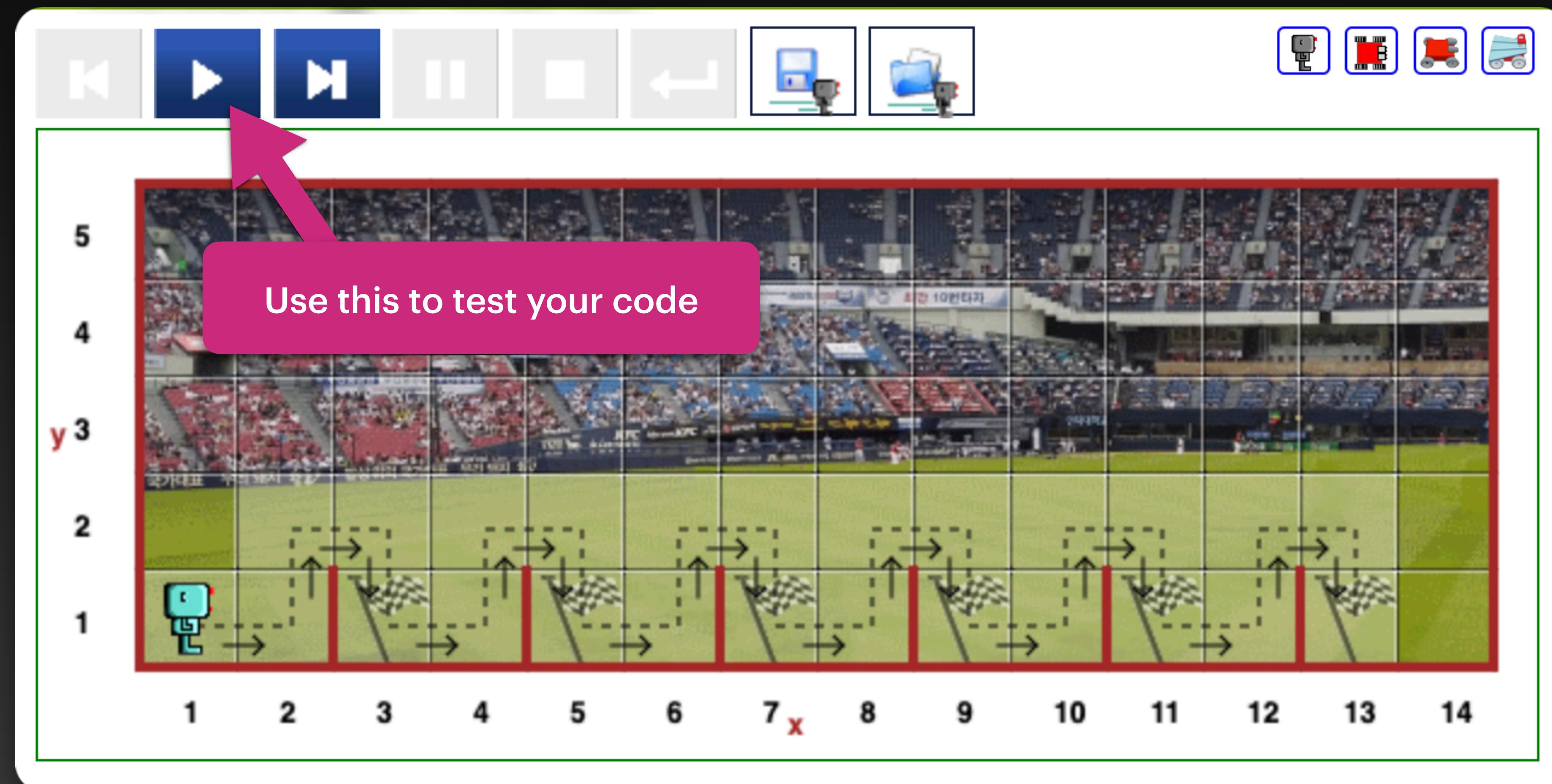


The image shows a screenshot of a Python code editor interface. At the top, there is a navigation bar with two tabs: "Python Code" (highlighted in green) and "library". To the right of the tabs are icons for font size adjustment (A↓A, A↑A), a pencil, and a magnifying glass. The main area contains two lines of code:

```
1 # Hello!!!
2 # Write your code here
```

A large, semi-transparent pink callout box with a white border and a pink arrow points from the bottom right towards the second line of code. Inside the callout box, the text "Write your code here" is displayed in white.

# How to use the website?

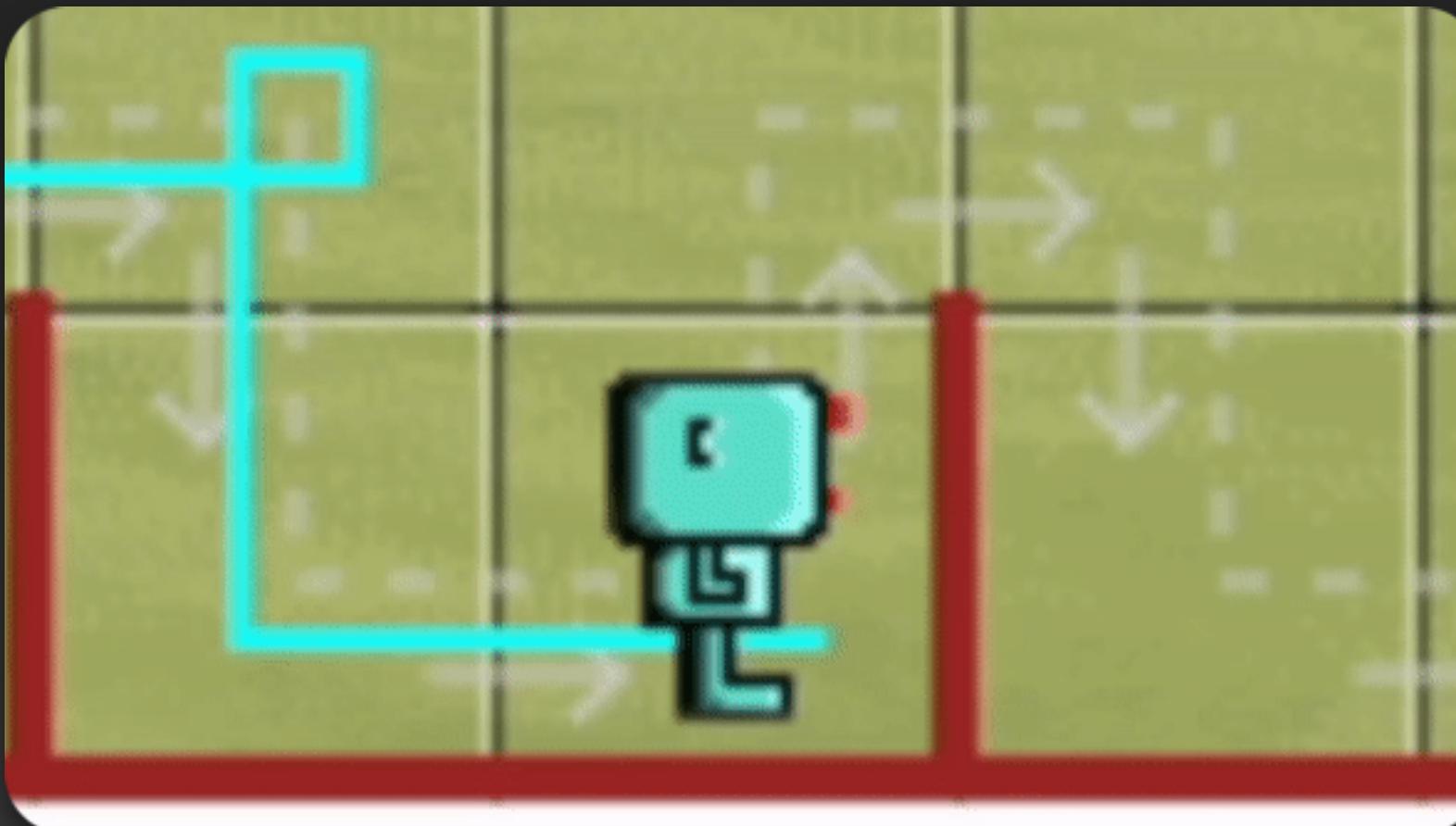


# How to control your robot?

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

You can turn your robot with **turn\_left()**

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



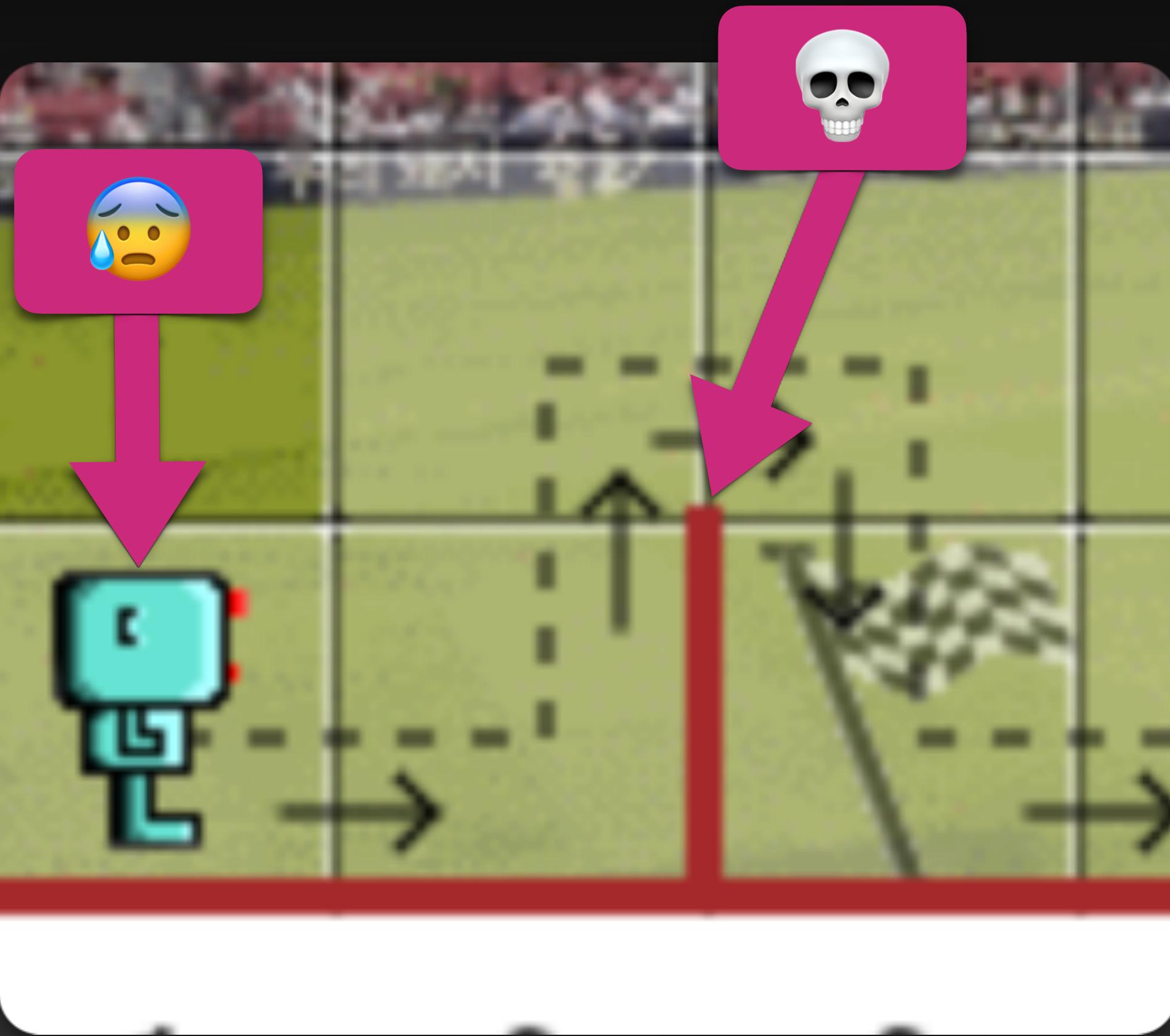
```
while not at_goal():
    move()
```



# 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

A↓A | A↑A

```
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
```

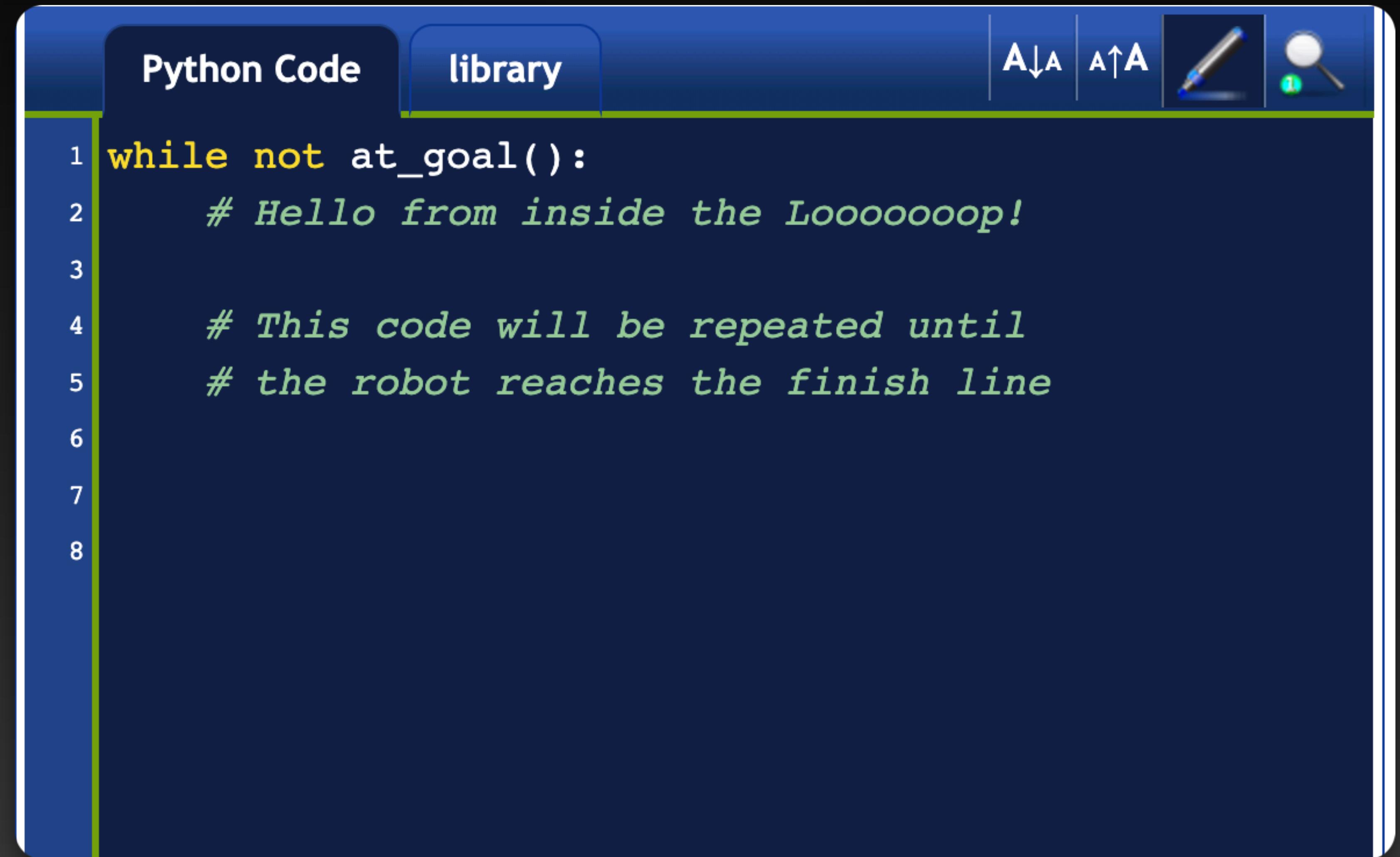
# Check for Wall On Right

We can use the **wall\_on\_right()** function to check for wall on right

```
6 while not at_goal():
7     if wall_on_right():
8         # There is a wall on right
9         # Code from inside here will be executed
10
```

# 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!



The image shows a screenshot of a Python code editor interface. At the top, there are two tabs: "Python Code" and "library", with "library" being the active tab. To the right of the tabs are icons for saving (A↓A), loading (A↑A), a pencil for editing, and a magnifying glass for search. The main area contains the following Python code:

```
1 while not at_goal():
2     # Hello from inside the Loooooop!
3
4     # This code will be repeated until
5     # the robot reaches the finish line
6
7
8
```

Feeling Intimidated?

DONT!

We will help you out, just ask for help