QUIZZ {1h00}

STUDENT FIRST NAME / LAST NAME: 

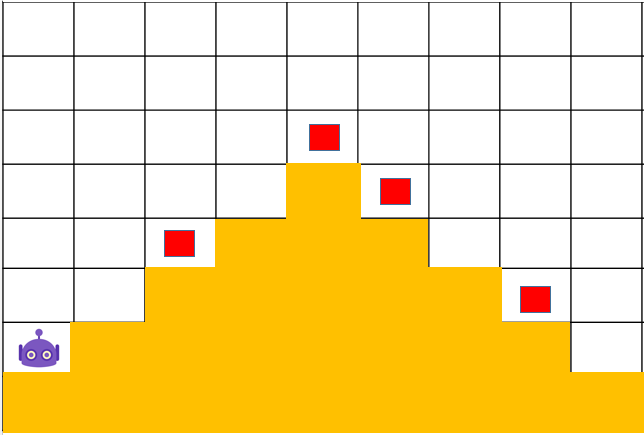
**WARNING**

**YOU NEED TO CHECK CAREFULLY STEP BY STEP THAT YOUR CODE WORKS**

**If you code does not work, you will get a 0 score**

**Exercise 1: (25 POINTS)**

|  |  |
| --- | --- |
| Objective | Pick up all diamonds |
| Maximum number of instructions | 10 |
| Allowed instructions | GO-UP GO-DOWN GO-LEFT GO-RIGHT PICK-UP  IF  REPEAT N-TIME WHILE |
| Allowed conditions | <HAS DIAMOND> |



Repeat 4 times

Repeat 4 times

Pick up

If has diamond

Go right

Go up

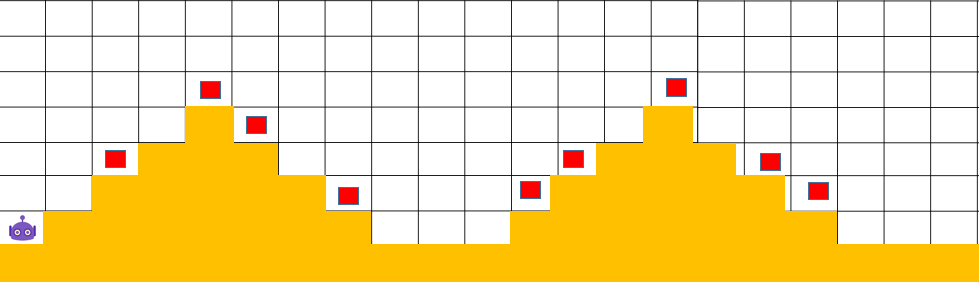
Go down

If has diamond

Pick up

**Exercise 2: (25 POINTS)**

|  |  |
| --- | --- |
| Objective | Pick up all diamonds |
| Maximum number of instructions | 14 |
| Allowed instructions | GO-UP GO-DOWN GO-LEFT GO-RIGHT PICK-UP  IF  REPEAT N-TIME WHILE |
| Allowed conditions | <HAS DIAMOND> |



Repeat<2 times>

**Exercise 3: (25 POINTS)**

Go right

If <has apple>

Pick up

If <has apple>

Go right

Go down

Repeat<4 times>

Pick up

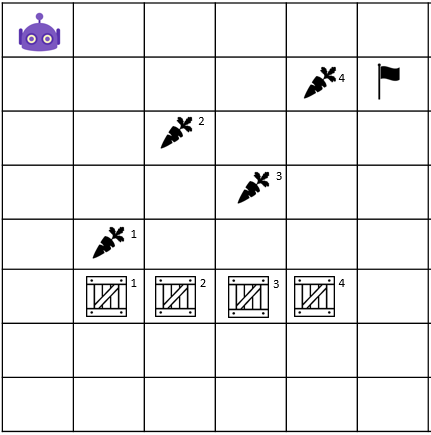
If <has apple>

Go right

Go up

Repeat<4 times>

|  |  |
| --- | --- |
| Objective | Bring all carrots to their respective box |
| Maximum number of instructions | 13 |
| Allowed instructions | GO-UP GO-DOWN GO-LEFT GO-RIGHT PICK-UP DROP  IF  REPEAT N-TIME WHILE |
| Allowed conditions | <HAS CARROT> |



If <has carrot>

Repeat <4 times>

Drop

Go down

Pick up

Repeat <4 times>

Go right

While <has cell on right>

Go down

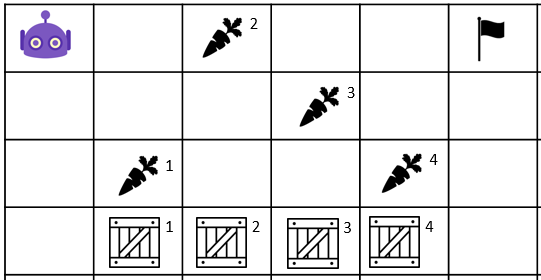
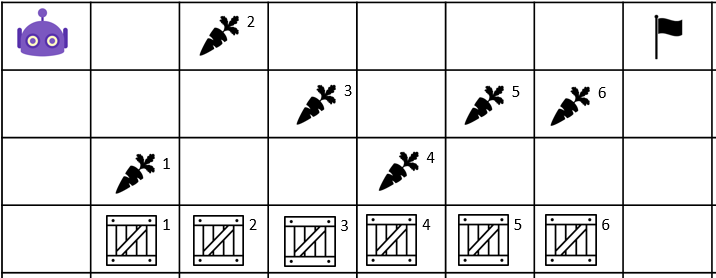
Go up

**Exercise 4: (25 POINTS)**

* Flag**:** ទង់ជាតិ

|  |  |
| --- | --- |
| Objective | Bring all carrot to their respective box **and** stop at the flag!!  WARNING : you program must work for the 2 cases !!! |
| Maximum number of instructions | 10 |
| Allowed instructions | GO-UP GO-DOWN GO-LEFT GO-RIGHT PICK-UP DROP  IF  REPEAT N-TIME WHILE |
| Allowed conditions | <HAS CARROT>  <HAS FLAG>  <HAS **NO** FLAG> |

CASE 1 CASE 2



Go right

While <has no flag>

Drop

Repeat <3 times>

Go down

If <has carrot>

Pick up

Go up

Repeat <3 times>