QUIZZ {1h00}

STUDENT FIRST NAME / LAST NAME: 

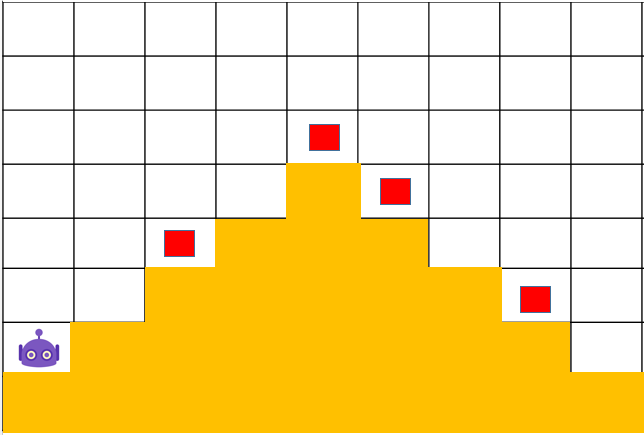
**WARNING**

**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> |



Has cell on right

while

Pick up

Has diamond

IF

Go right

Go up

Has no cell on right

while

Go right

Go down

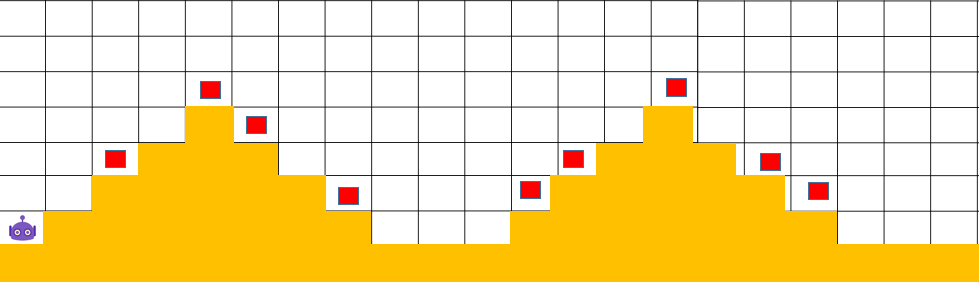
Has diamond

IF

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> |



**Exercise 3: (25 POINTS)**

Go right

Go right

Pick up

Has apple

IF

Go down

Go right

Repeat<4>

Pick up

IF

Has apple

Go right

Go up

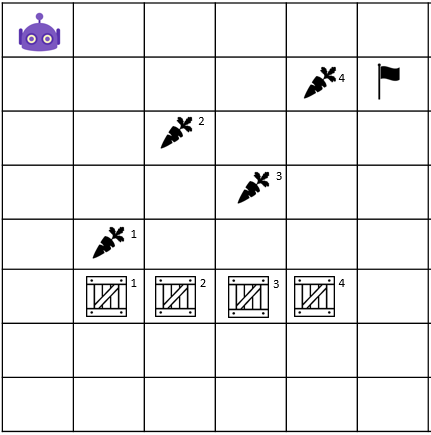
Has no cell on right

While

Repeat<2>

|  |  |
| --- | --- |
| 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> |

Repeat<4>



Repeat<5>

Repeat<5>

Drop

Pick up

Has carrot

IF

Go down

Go right

Go up

Go down

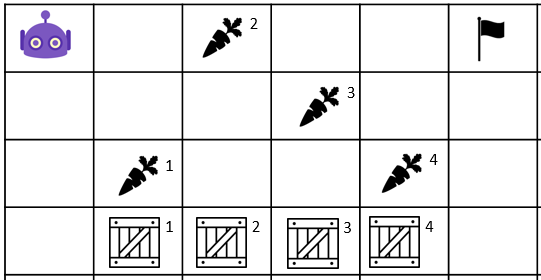
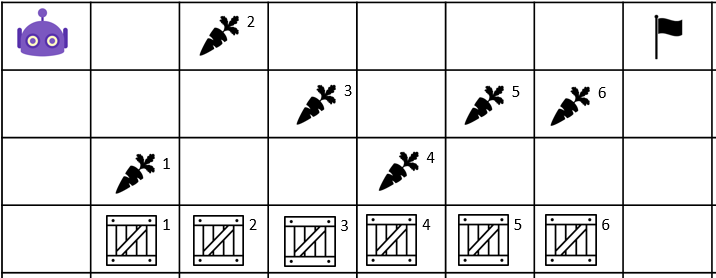
Go right

**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

Repeat<3>

Has no flag

While

Go right

Go up

Repeat<3>

Drop

Go down

Pick up

Has carrot

IF