

# TECHNO FUTURE

## RAMADAN ROBOTICS LEAGUE



### TASK NAME: FINAL TASK

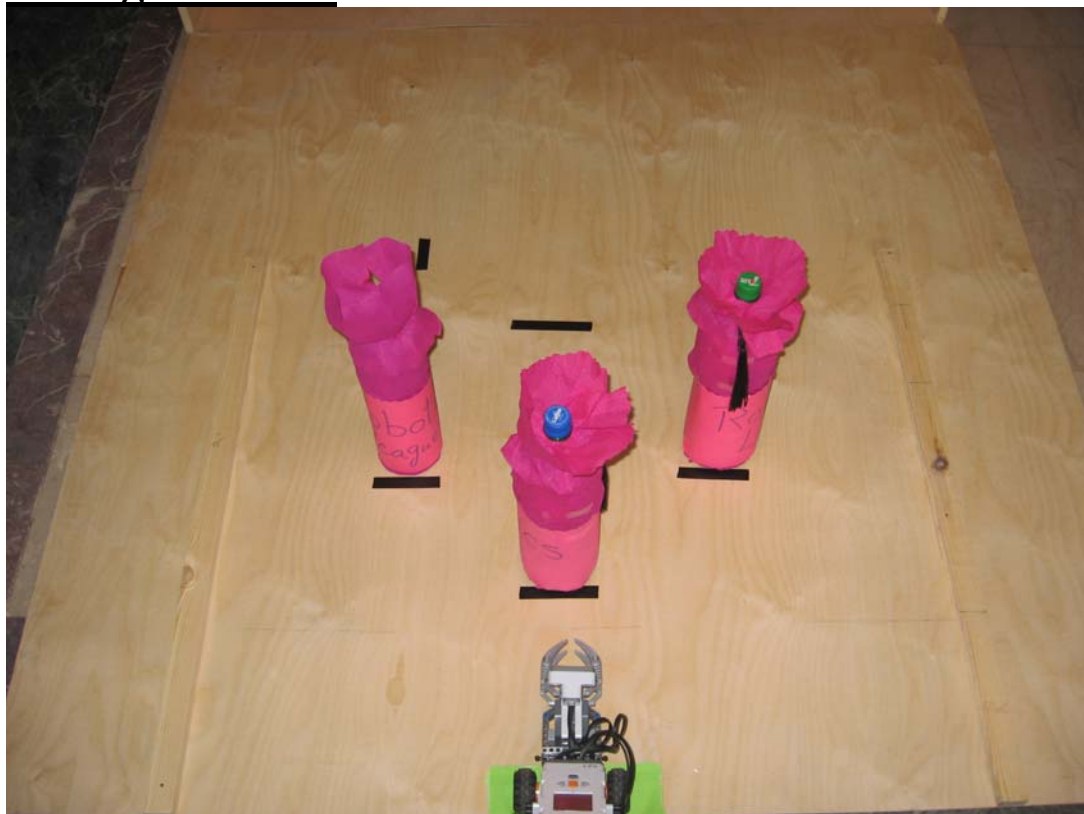
### TASK DESCRIPTION:

#### Part 1:

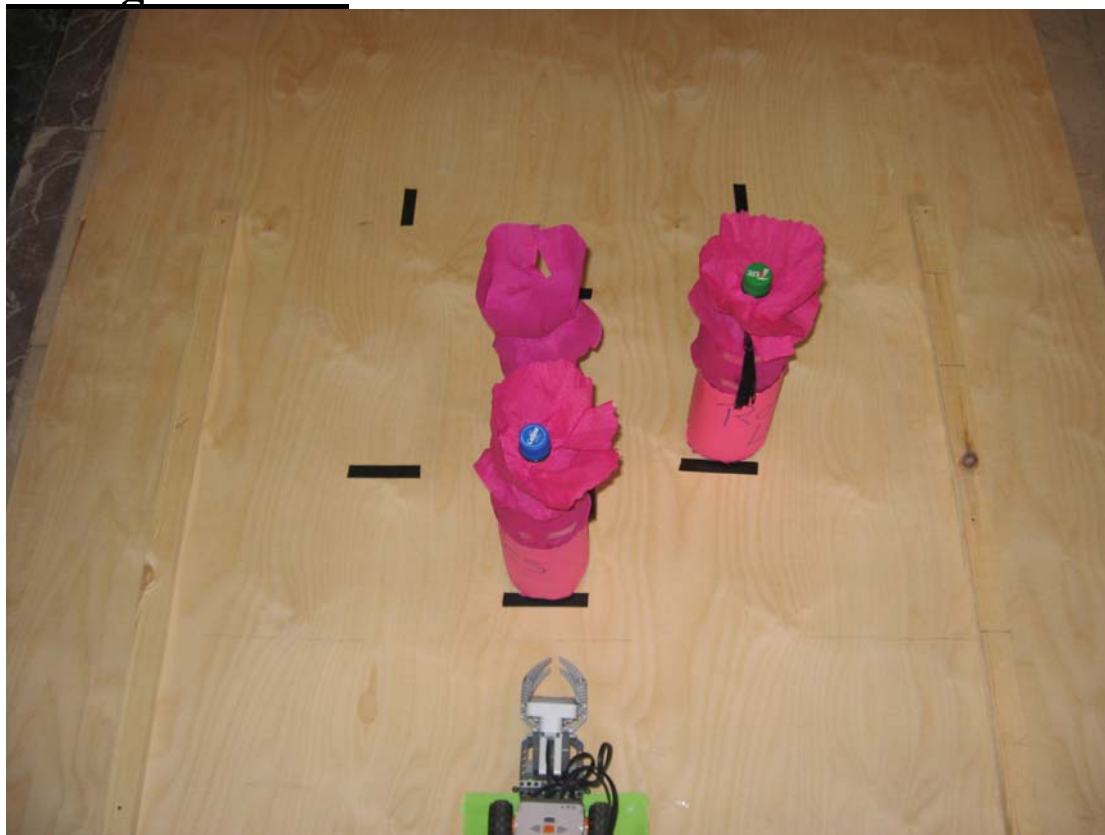
From the starting point let your robot succeed to reach the ending point (black line) passing through 3 different obstacles arranged into 6 different configurations (the 3 obstacles will be placed in different places each time).

Using the same program let your robot pass the 4 main configurations shown in the figures;

#### Configuration1:



**Configuration 2:**



**Configuration 3:**

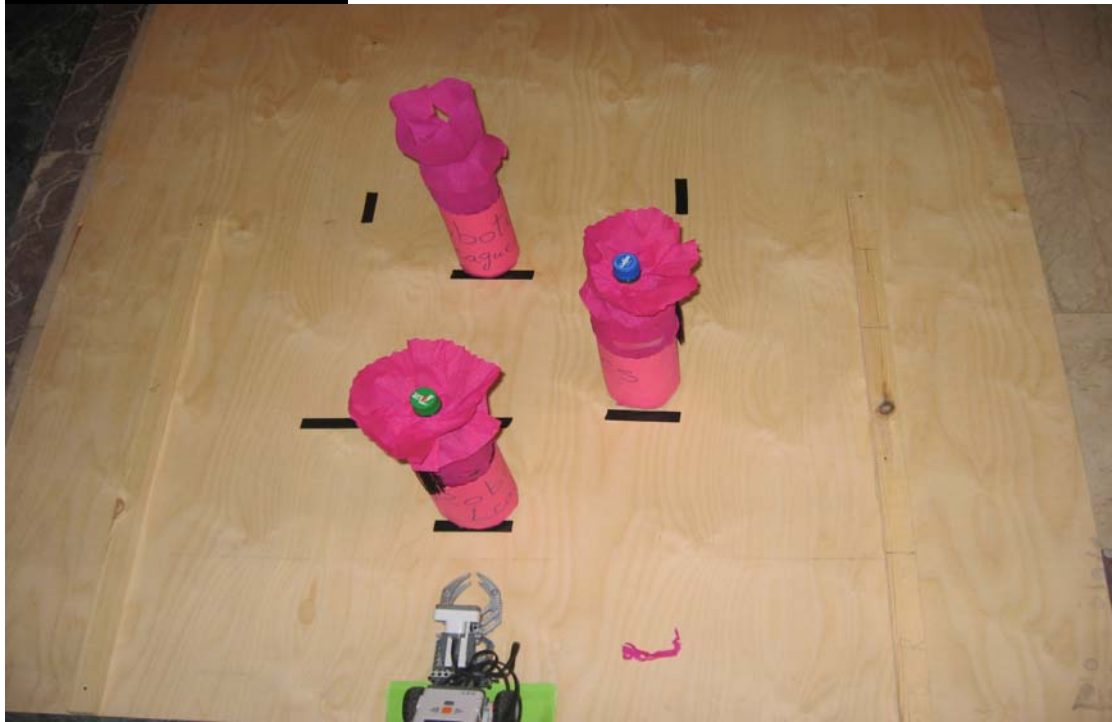


## **Configuration 4:**

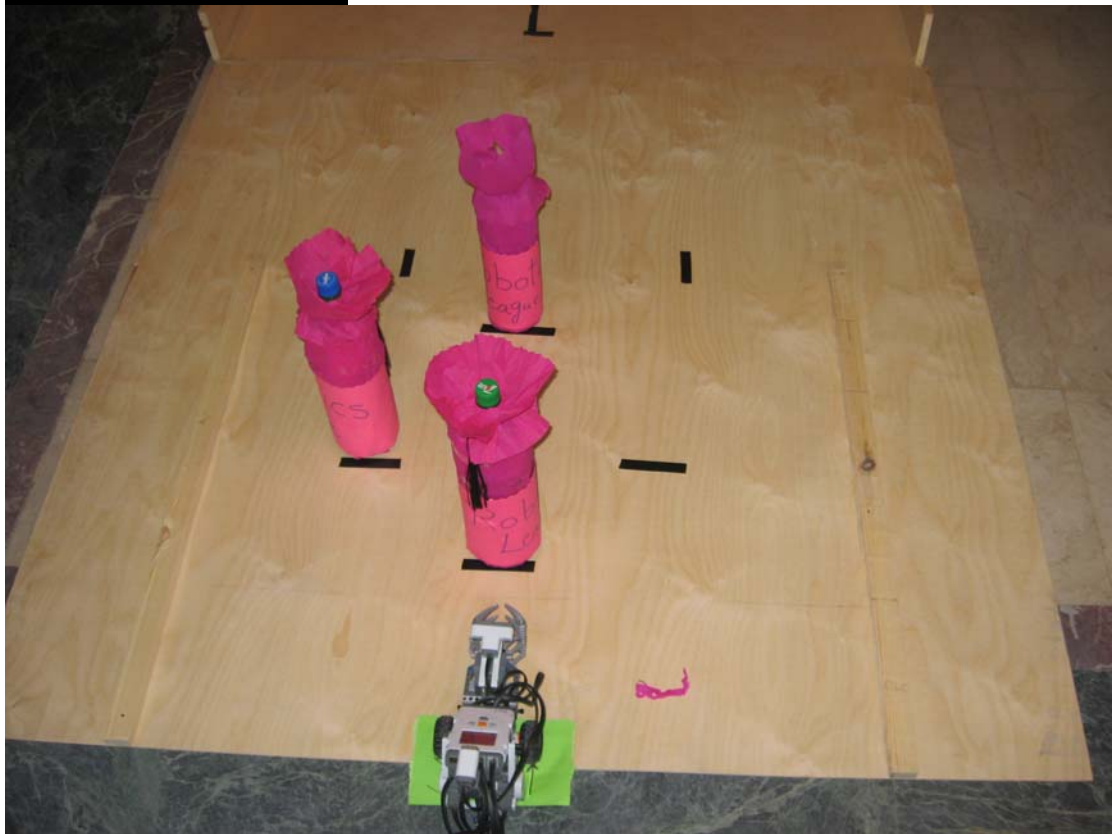


The team which will realize the 4 configurations will be able to accomplish the following two configurations; hence they will get a bonus.

**Configuration 5:**

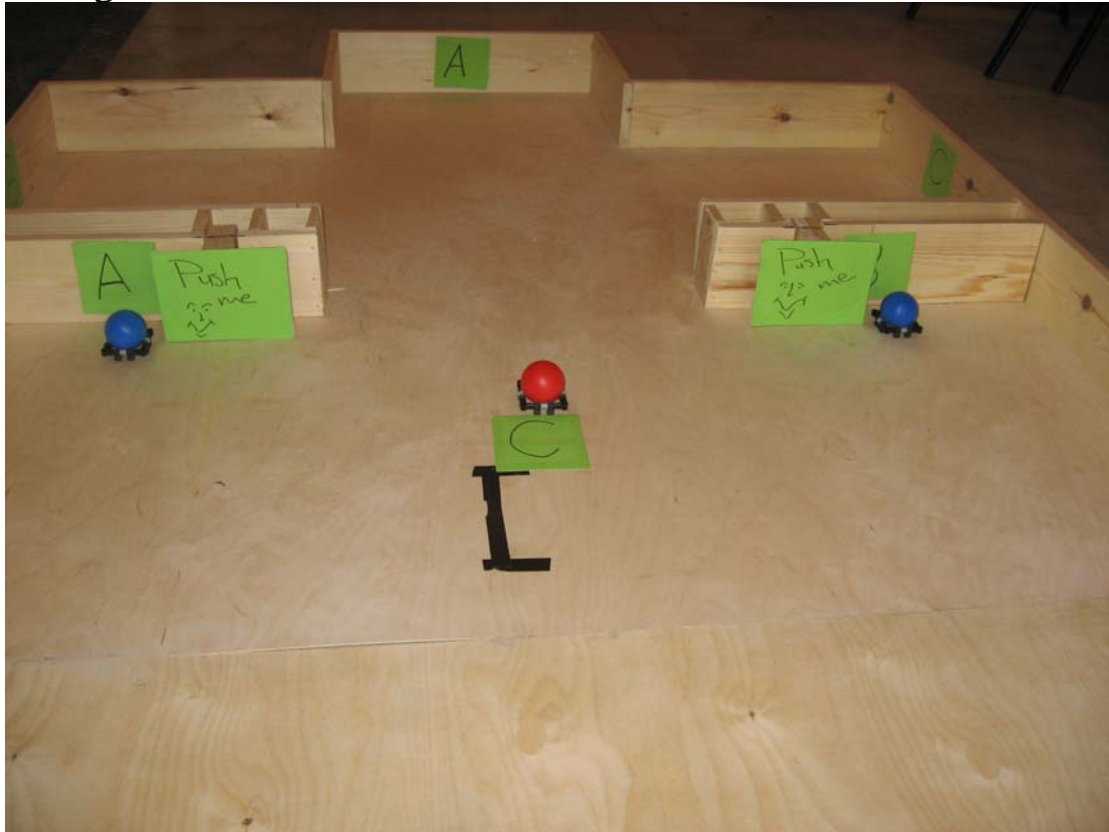


**Configuration 6:**

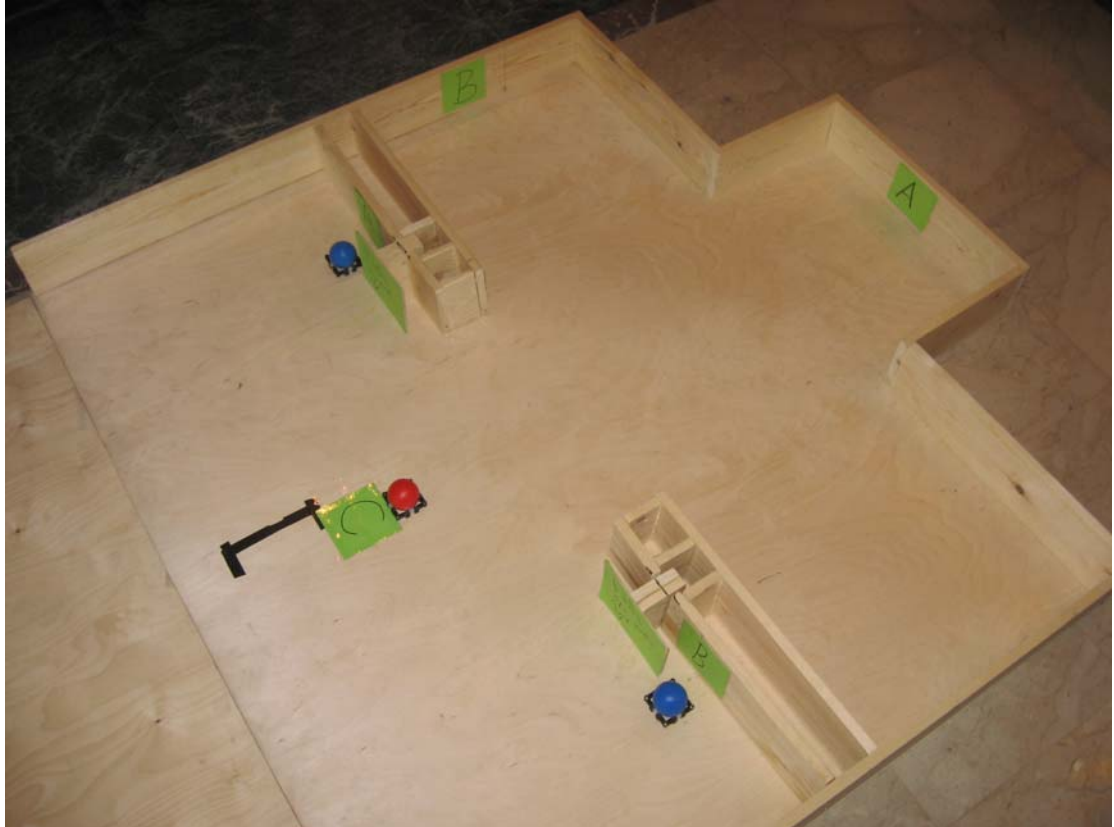
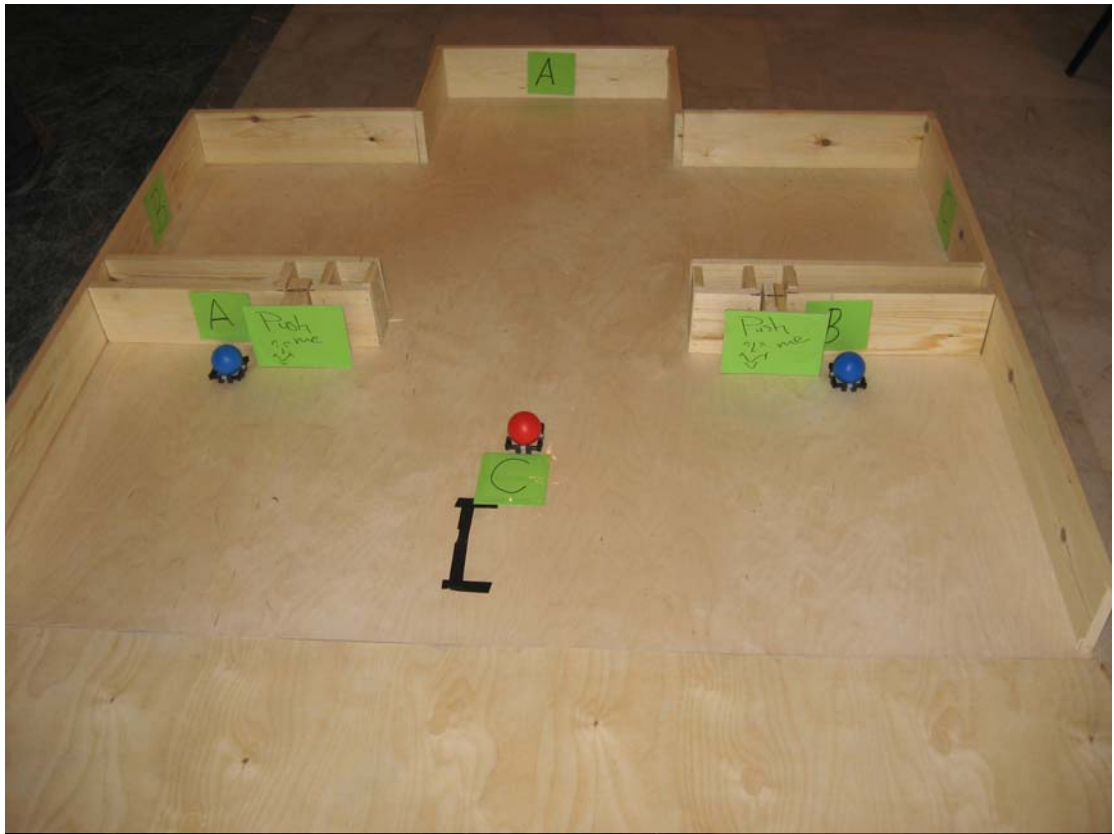


## Part2:

Let your robot place each ball in its correct place as shown in the figures;



**Hint:** you won't be able to get the balls A & B unless you push the obstacles right beside them.



## MARKS DISTRIBUTION:

### Part 1:

Configuration 1.....	(12.5 marks)
Configuration 2.....	(12.5 marks)
Configuration 3.....	(12.5 marks)
Configuration 4.....	(12.5 marks)

### **Bonus**

Configuration 5.....	(5 marks)
Configuration 6.....	(5 marks)

### Part 2:

Pushing obstacle 1.....	(5 marks)
Pushing obstacle 2.....	(5 marks)
Placing ball A.....	(15 marks)
Placing ball B.....	(15 marks)
Placing ball C.....	(10 marks)