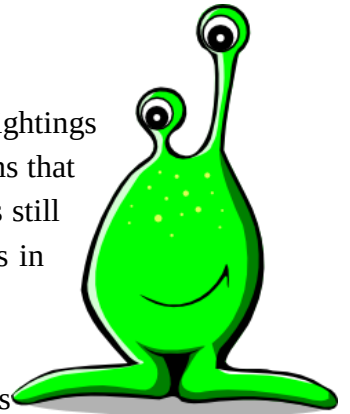


WELCOMING ALIENS

The last few days something really strange is happening. There are many UFO sightings near our city and the scientists believe that we will soon be in contact with aliens that are here to explore our world. The mayor wants to welcome the aliens but he is still afraid to send humans for the first contact. That's why he got in touch with us in order to create a robot that will go near the aliens and kindly welcome them.



1

First we have to test our robot. That's why we will create some models for the aliens using paper, cups, scissors, markers and whatever else you want.

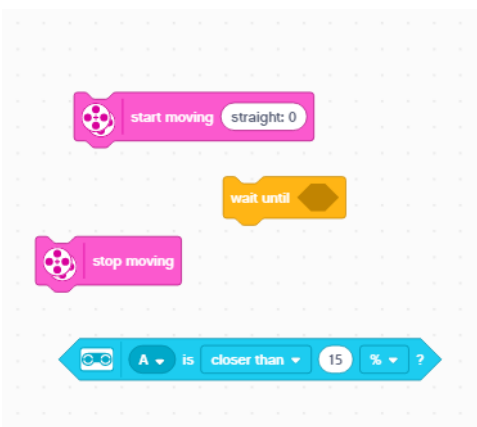
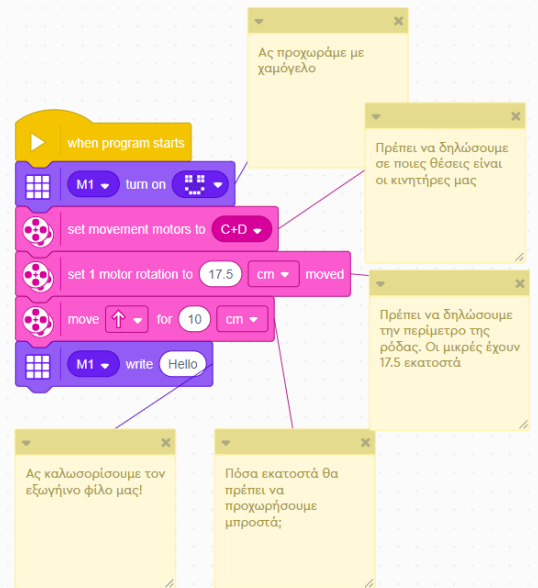


Create a simple vehicle robot according to the instructions available on Lego Spike Prime. For example you could try Basic Driving Base 2. Place the model of the alien and the robot on our track.

2

3

Program the robot in such a way that can drive near the alien model with a smile and when it gets really close to write a proper salute on the screen. How can you calculate the right distance? Well you have rulers on your tables.



And what happens if the alien is not always in the same place? What can we do? We can use the ultrasound distance sensor that estimates the distance between our robot and an obstacle! How can we change our program now? Well we will not drive a fixed amount of centimeters, but we will use the distance sensor in order to stop just in front of the alien models.

4