

ORA : Investigating Sensor Fusion

Ozobot Editor Blocks



Sensor Fusion:
OCR & Color Sense
AGREE

Blue

Sensor Fusion:
OCR & Color Sense
DISAGREE

Purple

Stop

Program start

Initialization

repeat forever

do Get OCR and Color Sense with LLM and Camera

Parse LLM and Camera Result

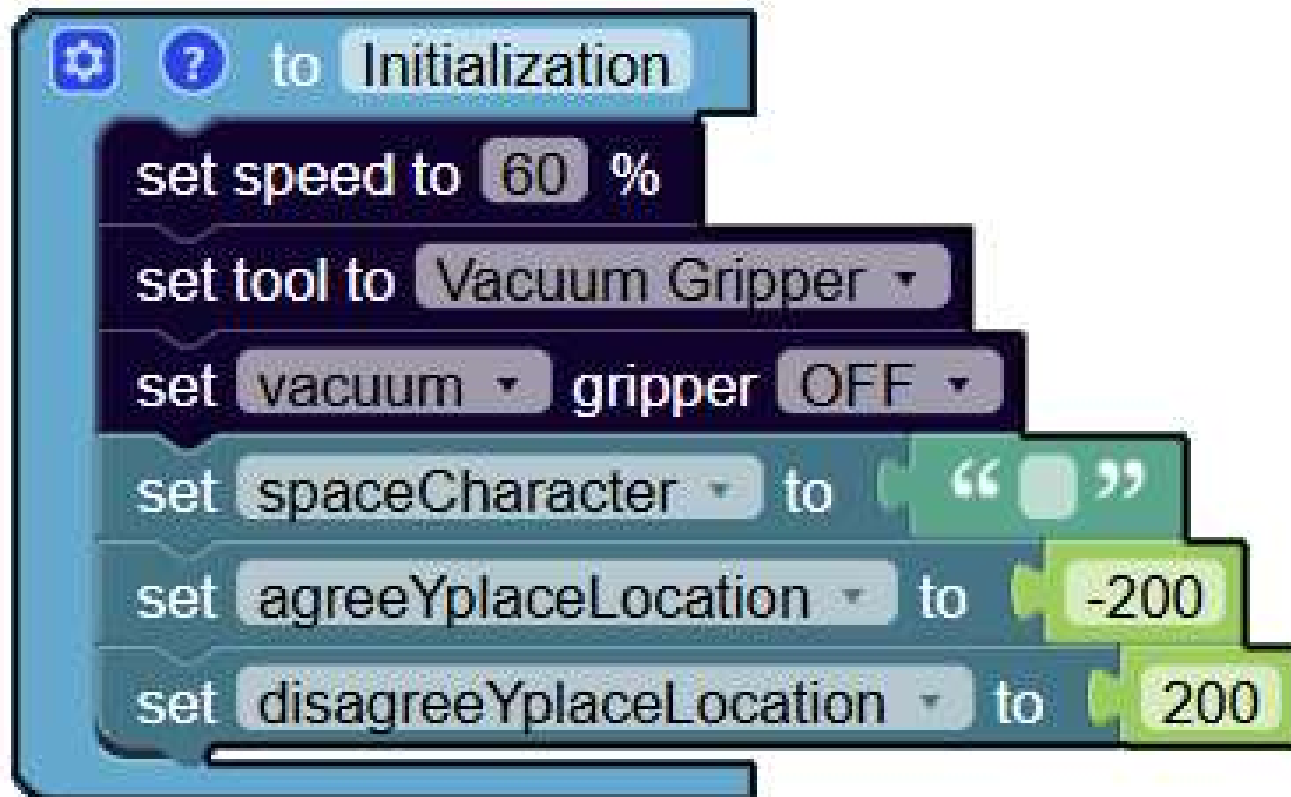
if OCR = " Stop "

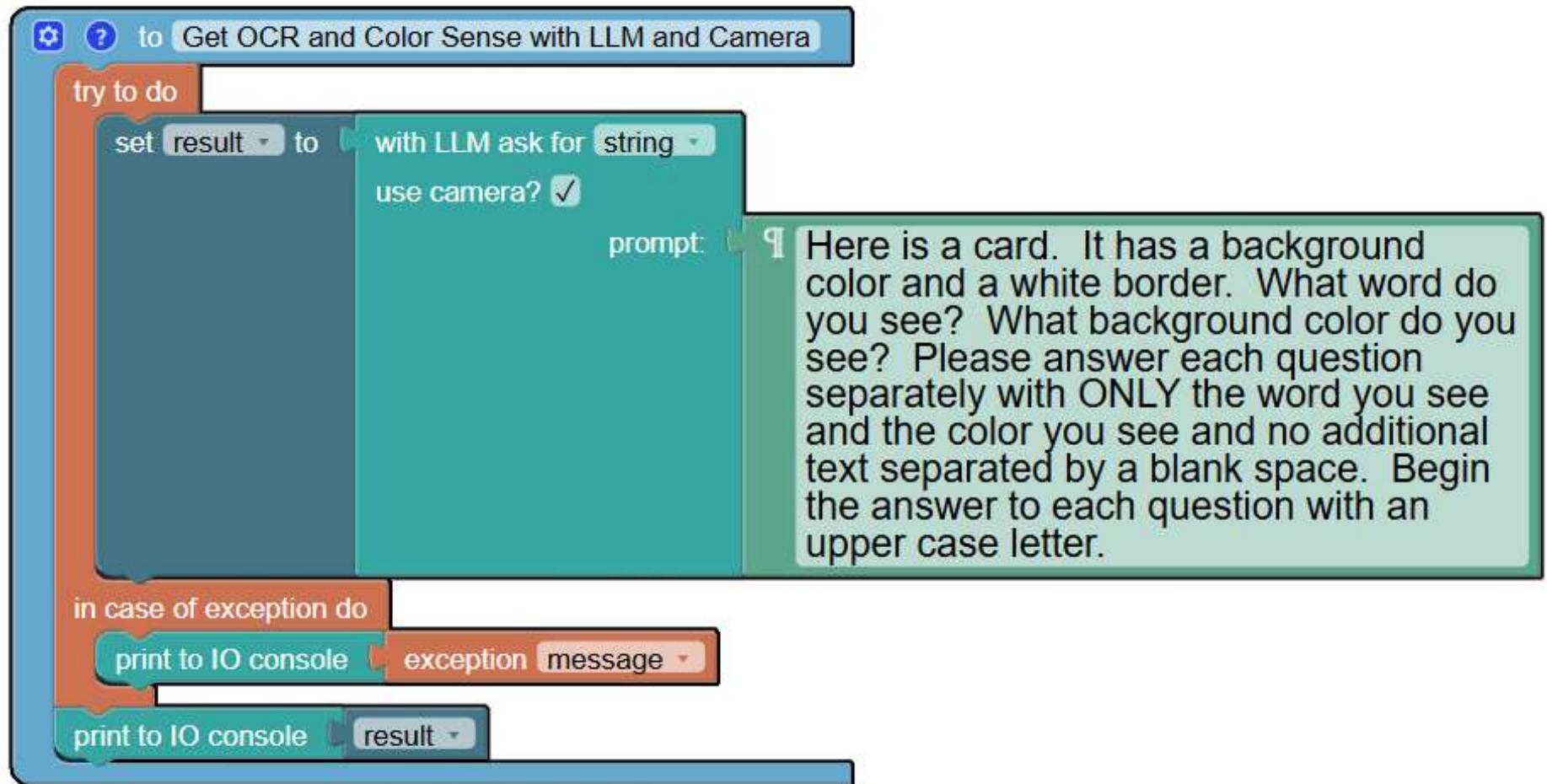
do break out of loop

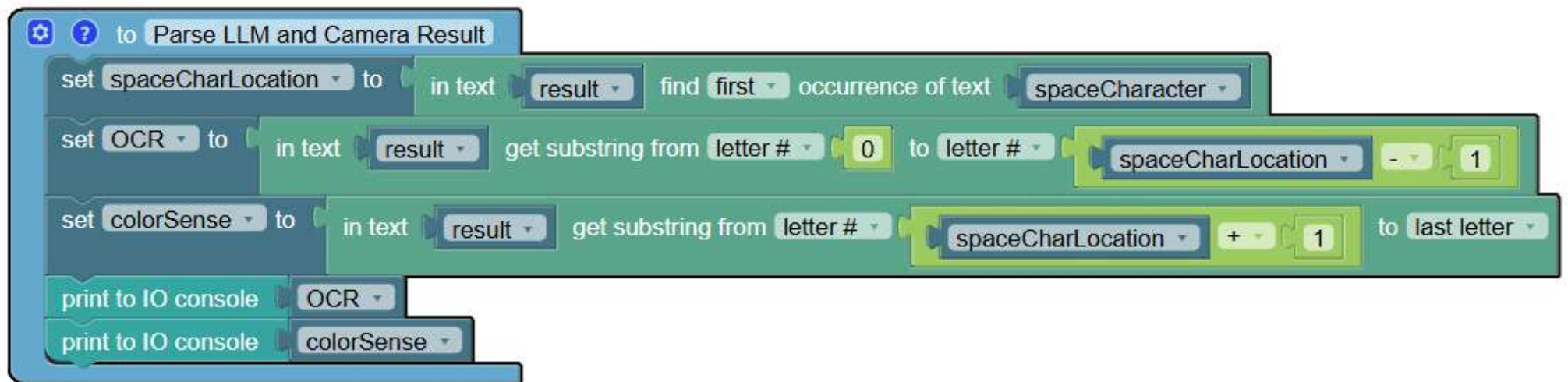
Pick Up Card

Place Card at Proper Location

move safely to user point ZERO









to Pick Up Card

move to coordinate (x = 380 , y = 0 , z = 30) [mm]

with tool angle (roll = -180 , pitch = 0 , yaw =) [°]

movement type: linear ▾

move to coordinate (x = 380 , y = 0 , z = -4) [mm]

with tool angle (roll = -180 , pitch = 0 , yaw =) [°]

movement type: linear ▾

set vacuum gripper ON ▾

move to coordinate (x = 380 , y = 0 , z = 30) [mm]

with tool angle (roll = -180 , pitch = 0 , yaw =) [°]

movement type: linear ▾

to Place Card at Proper Location

if OCR = colorSense

do set y to agreeYplaceLocation

else set y to disagreeYplaceLocation

move to coordinate (x = 225 , y = y , z = 10) [mm]

with tool angle (roll = -180 , pitch = 0 , yaw =) [°]

movement type: linear

set vacuum gripper OFF

move to coordinate (x = 225 , y = y , z = 30) [mm]

with tool angle (roll = -180 , pitch = 0 , yaw =) [°]

movement type: linear