**OBJECTIVE**: Get the robot from MCL 502 to the benches by the coffee shop downstairs.

// Should we have some kind of obstacle-sensing/avoiding function thing before this begins?

something like: if obstacle is encountered, go around it  
// Y’all can change the formatting back to something like numbering each step, I was just doing this to sort of separate command labels from their content. & there are probably flaws in my logic so please feel free to change it

INITIATE ROBOT

// if robot is not awake, feel free to poke it with a stick.  
  
CHECK ANATOMICAL POSE & POSITION  
 If Robot is Standing, Listen for Next Command

If Robot is Sitting,  
 Stand up from the chair   
 Turn 90 degrees to the left  
  
SCAN AREA FOR ROOM EXITS  
 // there are two exits, it needs the freedom to use either in case of emergencies  
 // We can also write something that gives it the ability to use either exit. still a WIP tho.

WALK 10 FEET AND STOP

TURN RIGHT AND WALK TOWARDS DOOR  
STOP

OPEN THE DOOR   
  
CHECK DOOR STATUS

If Door is Open

EXIT THROUGH DOOR

If Door is Closed

OPEN DOOR

EXIT THROUGH DOOR  
  
WALK FORWARD FOR FIVE FEET

TURN TO LEFT AND WALK FORWARD UNTIL YOU REACH ELEVATORS AND STOP   
  
IF Elevators Status is Out of Order

SCAN AREA FOR STAIRS/ EXIT SIGN

GO TO STAIRS LOCATION

CHECK STAIRS DOOR STATUS

If Door is Open

EXIT THROUGH DOOR

If Door is Closed

OPEN DOOR

EXIT THROUGH DOOR

CHECK LOCATION STATUS

If FLOOR NUMBER is Greater Than 1

Walk Downstairs

Do Until Floor Number = 1

If Floor Number = 1

Exit Stairwell

SEND LOCATION TO TEAM  
 // even if we aren’t near it we can check its progress

// this command is reusable – it can report its location to us at certain times in its journey

// to send location/coordinates, there are multiple options:

SCAN AREA FOR TEAM

IF TEAM IS PRESENT

Tell team directly

ELSE

IF TEAM IS ABSENT

Send Photo or Location Coordinates Via Text Message

// Send to Number:

End-If

PUSH THE BOTTOM BUTTON TO GO DOWN:   
  
 CHECK ELEVATOR BUTTON STATUS

If DOWN ARROW Button is Active

LISTEN FOR NEXT COMMAND

ELSE

Press DOWN BUTTON

End-If

WAIT UNTIL THE ELEVATOR LOCATION IS 5th Floor & GO INSIDE THE ELEVATOR AND PRESS THE 1 BUTTON:

CHECK ELEVATOR STATUS

If Down Elevator Location is = 5th Floor, Elevator Door is Open, and Interior is Not Full

MOVE INTO DOWN ELEVATOR

CHECK INTERIOR ELEVATOR BUTTON STATUS

If Floor 1 Button is Active

LISTEN FOR NEXT COMMAND

ELSE

Press Floor 1 Button

ELSE

WAIT for Down Elevator Location = 5th Floor, Open Door, Room in Elevator

End-If

WHEN ELEVATOR IS ON THE FIRST FLOOR, WALK OUT AND TURN TO THE LEFT:   
  
 CHECK ELEVATOR LOCATION STATUS

If Elevator Floor Location is = 1 and Elevator Door Status is Open

EXIT ELEVATOR

Repeat Status Check Until Floor Number = 1

End-If  
  
CONTINUE TO WALK STRAIGHT

SCAN AREA FOR 1st FLOOR BENCHES   
  
SIT ON BENCHES  
 If Benches are Full  
 Wait Until Bench Status is empty or open?  
Else  
 Sit on Bench  
END

\*How about you guys just simply start off with 1. stand up from your chair. 2. Exit through the door to the left of the two big screens on the wall. That would be pretty specific to me. What do y’all think?

I think it’d be easier to say exit through the door on the same wall/face as the white boards, eliminating the need to instruct the robot to the door.