Student Name:

Assignment:

Notes:

Project Name: Treasure Hunt Competition Solution (1)

Project Type: Blocks

Date: Mon Mar 02 2026


when started
Turn on the Optical light to allow it to see the block color better
set Optical2 light on
This variable changes to which block out of the 5 the robot is currently on
set block to 1
repeat 5
Move to the block
drive forward for 305 mm
turn left for 90 degrees
drive forward for 150 mm
wait 1 seconds
Detects if the block color is red
if Optical2 detects red ? then
If the block is red the claw will close
spin ClawMotor forward for 30 degrees
drive reverse for 150 mm
turn right for 90 degrees
1650mm is the distance to the end of the field
The block times 300mm is subtracted to get the distance from the current block to the end
E.g. if on the 3rd block, 1650 - 900 = 750 which is the remaining distance to the end
drive forward for 1650 - block * 300 mm
Open the claw and go back
spin ClawMotor to position 0 degrees
drive reverse for 1650 - block * 300 mm
Changes the variable as it is now moving onto the next block
change block by 1
else
If the block is not red then the robot will drive back to the center
drive reverse for 150 mm
turn right for 90 degrees
Changes the variable as it is now moving onto the next block
change block by 1