```
def main():
   #initializing the velocity of drivetrain, motors, and also setting heading
   drivetrain.set drive velocity(100, PERCENT)
   drivetrain.set turn velocity(100, PERCENT)
   drivetrain.set heading(0, DEGREES)
   intake motor group.set velocity(100, PERCENT)
   arm motor group.set velocity(100, PERCENT)
   #getting first green block and putting it in the box
   intake motor group.spin(FORWARD)
   drivetrain.drive for (FORWARD, 200, MM)
   if intake bumper.pressing():
   intake motor group.stop()
   arm motor group.spin to position(330, DEGREES, wait=False)
   drivetrain.turn to heading (236, DEGREES)
   monitor_sensor("front_distance.object_distance_mm")
   drivetrain.drive(FORWARD)
   while front distance.object distance(MM) > 20:
     wait (5, MSEC)
   drivetrain.stop()
   intake motor group.spin for (REVERSE, 360, DEGREES)
   #Getting second green block and putting it in the box
   drivetrain.drive(REVERSE)
   while front distance.object distance(MM) < 36:
   wait(5, MSEC)
   drivetrain.stop()
   drivetrain.turn to heading (20, DEGREES)
   arm motor group.spin to position(0, DEGREES)
   drivetrain.drive for (FORWARD, 70, MM)
   intake motor group.spin(FORWARD)
   intake bumper.pressing()
   intake motor group.stop()
   arm_motor_group.spin_to position(330, DEGREES, wait=False)
   drivetrain.turn to heading (232, DEGREES)
   drivetrain.drive(FORWARD)
   while front distance.object distance(MM) > 20:
   wait(5, MSEC)
   drivetrain.stop()
   intake motor group.spin for (REVERSE, 360, DEGREES)
   #Get the third cube and put it in the box
   drivetrain.drive(REVERSE)
   while front distance.object distance (MM) < 14:
     wait(5, MSEC)
   drivetrain.stop()
   drivetrain.turn to heading (20, DEGREES)
   arm motor group.spin to position(0, DEGREES)
```

```
drivetrain.drive for (FORWARD, 220, MM)
intake_motor_group.spin(FORWARD)
if intake_bumper.pressing():
 intake motor group.stop()
arm motor group.spin to position(330, DEGREES, wait=False)
drivetrain.turn to heading (220, DEGREES)
drivetrain.drive(FORWARD)
while front distance.object distance(MM) > 25:
 wait(5, MSEC)
drivetrain.stop()
intake motor group.spin for (REVERSE, 360, DEGREES)
#Get the 4th green block and put it in the box
drivetrain.drive(REVERSE)
while front distance.object distance(MM) < 18:
 wait(5, MSEC)
drivetrain.stop()
drivetrain.turn to heading (20, DEGREES)
arm motor group.spin to position(0, DEGREES)
#I got 300 because the last time it was less and now I have a greater distance
drivetrain.drive for (FORWARD, 300, MM)
drivetrain.turn to heading(0, DEGREES)
drivetrain.drive for (FORWARD, 200, MM)
intake motor group.spin(FORWARD)
if intake bumper.pressing():
 intake_motor_group.stop()
arm motor group.spin to position(330, DEGREES, wait=False)
drivetrain.turn to heading (205, DEGREES)
drivetrain.drive(FORWARD)
while front distance.object distance(MM) > 25:
 wait(5, MSEC)
drivetrain.stop()
intake motor group.spin for (REVERSE, 360, DEGREES)
#get the first red block and put it in a box
drivetrain.drive for (REVERSE, 150, MM)
drivetrain.turn_to_heading(90, DEGREES)
arm motor group.spin to position(90, DEGREES)
intake motor group.spin(FORWARD)
if intake bumper.pressing():
 intake motor group.stop()
drivetrain.drive_for(FORWARD, 500, MM)
arm motor group.spin for(FORWARD, 90, DEGREES)
drivetrain.drive for (REVERSE, 550, MM)
drivetrain.turn to heading(0, DEGREES)
arm motor group.spin to position(300, DEGREES)
```

```
drivetrain.drive_for(FORWARD, 955, MM)
drivetrain.turn_to_heading(-20, DEGREES)
intake_motor_group.spin_for(REVERSE, 360, DEGREES)
wait(1, SECONDS)

#Geting the second red block and putting uniform bonus
intake_motor_group.spin(FORWARD)
drivetrain.turn_to_heading(90, DEGREES)
arm_motor_group.spin_to_position(0, DEGREES)
if intake_bumper.pressing():
    intake_motor_group.stop()
drivetrain.drive_for(FORWARD, 250, MM)
arm_motor_group.spin_to_position(280, DEGREES)
drivetrain.turn_to_heading(-45, DEGREES)
drivetrain.drive_for(FORWARD, 140, MM)
intake_motor_group.spin_for(REVERSE, 360, DEGREES)
```

```
# VR threads - Do not delete
vr thread(main)
```