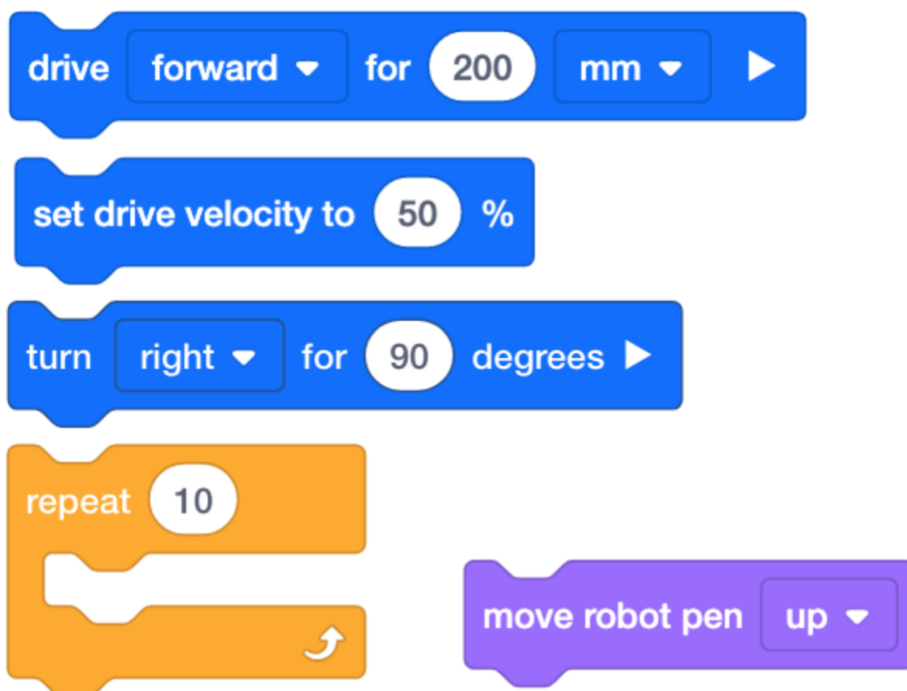# CISC 1003 – Square Lab

We will be using the VR.VEX environment for our class.
https://vr.vex.com/

Playground: Grid Map

Challenge: use the following blocks in your program, be sure to properly edit their values to correspond to what your robot should do.

drive [forward ▼] for (200) [mm ▼] ▶

set drive velocity to (50) %

turn [right ▼] for (90) degrees ▶

repeat (10)
    ↻

move robot pen [up ▼]

Program settings:
- Set the robot to drive at 75% velocity.
- Program the VR Robot to drive with the pen down, to draw a square.
- Make each side of the square 5 grid squares long.
- Use the repeat block for this lab.

Additional instructions:
Add a comment with your name (using the gray box) at the beginning of the program.
Place comments (using the gray boxes) in the program to explain what the program will be doing.

Submitting Projects:

When submitting your assignments, please submit the following:
- PDF of the code
- VEXcode Project
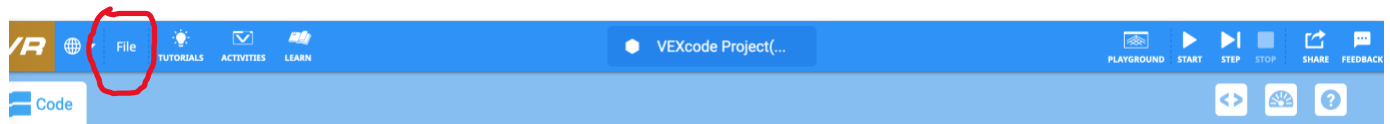- Screenshot of the playground after the program has stopped.

Your submission should include the three files. Name your file using your Last name.Firstname and the lab name. E.g., Doe.Jane.SquareLab.pdf, Doe.Jane. SquareLab.png, etc.

How to get these items:

- PDF of the code: share the code to get the PDF image of the program
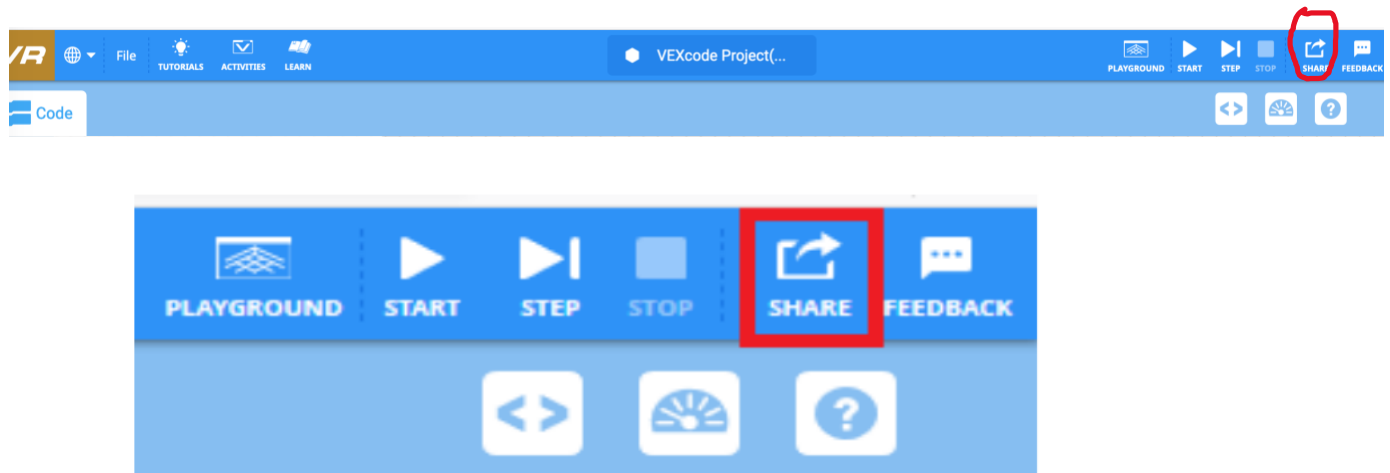
- VEXcode Project: In the VEX code project go to: File, Save to Your Device

- Save a screen shot of the robot playground that showed what the robot after the program is complete:
  https://www.theverge.com/2019/11/8/20953522/how-to-take-screenshot-mac-windows-pc-iphone-android

- Adapted from material by Prof. Lawrence Goetz