Spring 2021

CISC 1003 – Square Function

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

Draw Square using a My Block

Playground: Art Canvas
Inputs: Size: 1-5, Color: 1-4

Make a My Block called Draw Square to have the robot draw a square with the pen color specified by a number and give a size. Take the size value given, and multiply it by 100 when moving the robot in mm.

Color values:
1 Black
2 Red
3 Green
4 Blue

Use Operators to adjust the distance to move.

Use an "if then" block to set the pen color.

Such as 2 3 would be size of 2 times 100 to be 200 mm and the color green.

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/HW:

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 these three files, Name your document file using your Last name.Firstname and The lab name. E.g., Doe.Jane.obstacleavoidance.pdf, etc..
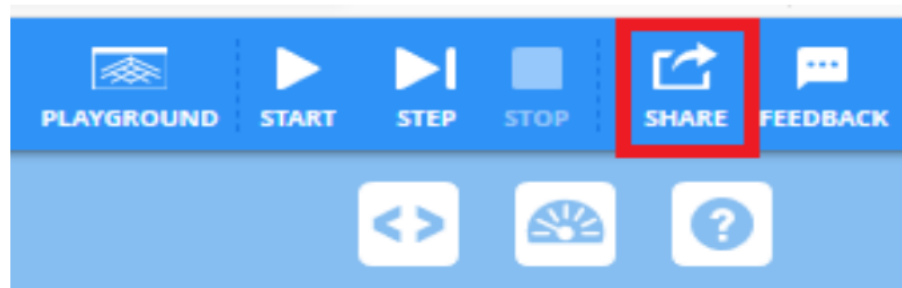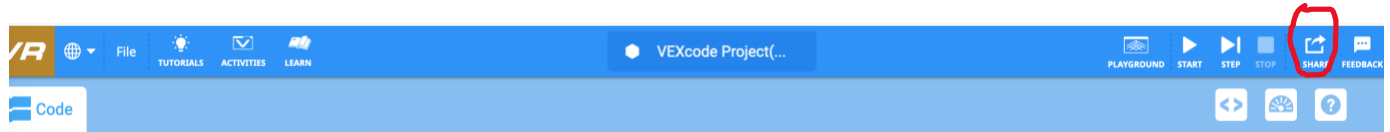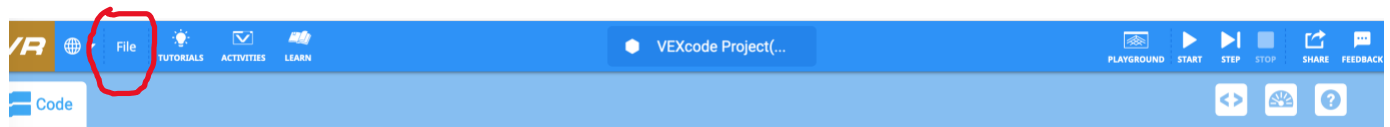
How to get these items:

- 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