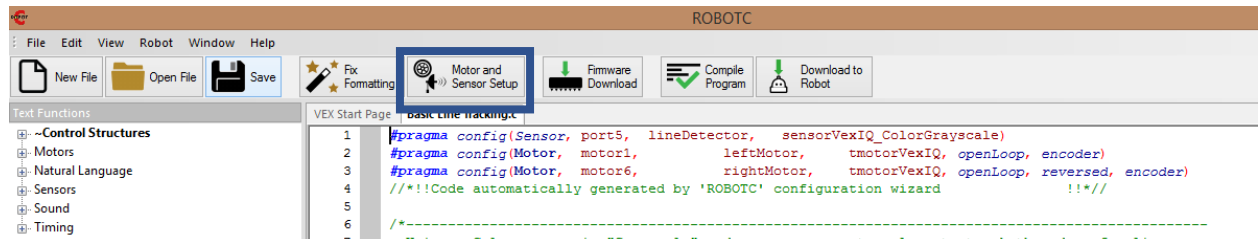


Start by opening up from the start menu **ROBOTC for VEX Robotics 4.X**

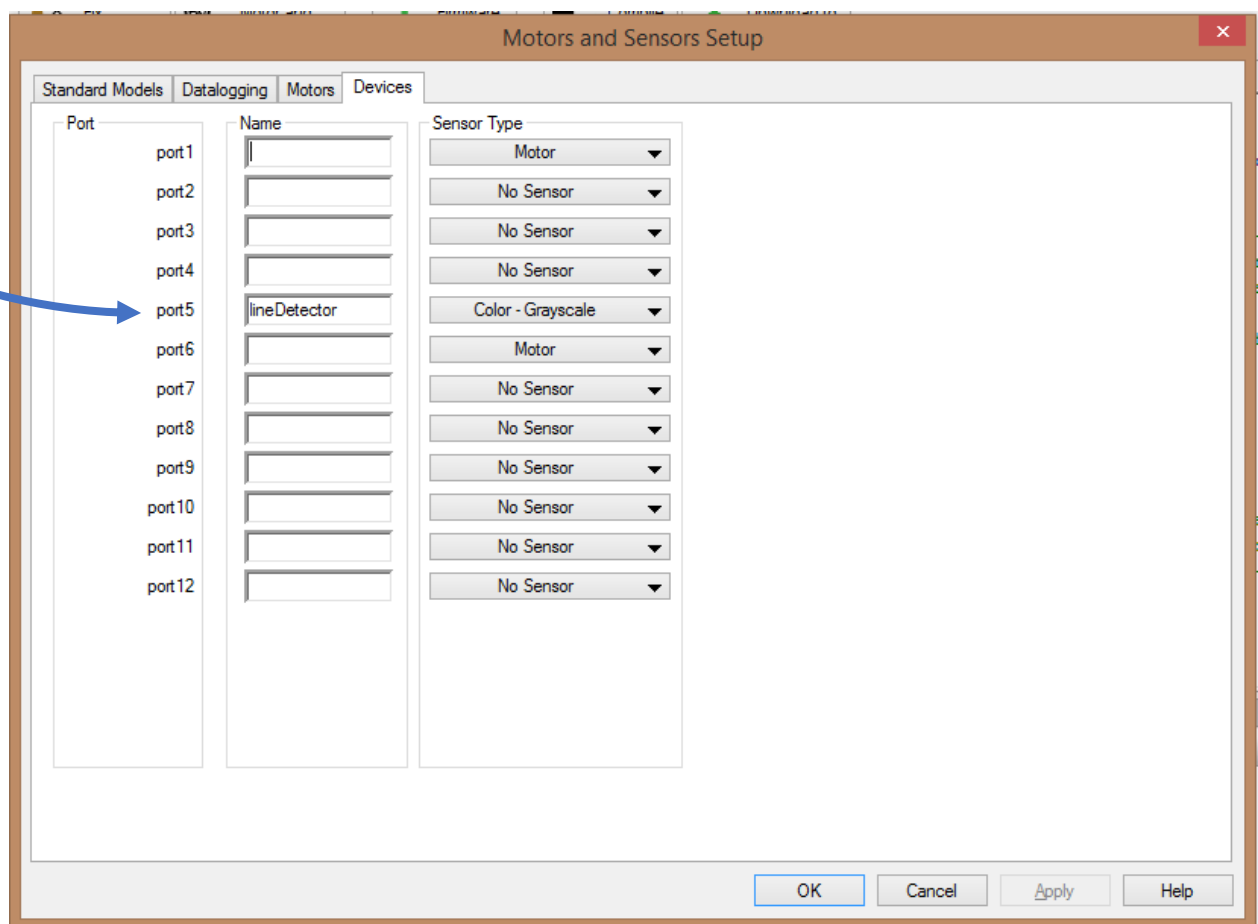
- 1- To start programming your robot, you need to designate which ports are being used by your VEX CPU.

On the main screen of the software, locate the **Motor and Sensor Setup** and click to open up the menu



The **Motors and Sensors Setup** dialog box will pop up. Type the name you will be designating your parts to in the **Name** category and under the **Sensor Type**, designate which sensor will be located on that specific port.

Refer to **port5** as an example: port5 = color sensor that measures Grayscale and is called "lineDetector"



This will generate your **Pragma** statements and will highlight them in Blue and Red.

- It is common practice and good coding technique to put a brief description of what your code is going to do. Type a `*/` to start a block of comments and a `/*` to end it.



```

/*-----
Using a Color sensor in "Grayscale" mode, you can create a loop to track the edge of a line.
This program will run forever (noted by the "while(true)" - the true condition will always be true)

Note: Lighting conditions change from place to place, so the value '600' may need to be changed
to better suit your environment. Grayscale Values can range from 0 to 2000 (possibly even higher)

ROBOT CONFIGURATION: VEX IQ Clawbot

MOTORS & SENSORS:
[I/O Port]      [Name]      [Type]      [Location]
Port 1          leftMotor   VEX IQ Motor Left side motor
Port 6          rightMotor  VEX IQ Motor Right side motor (reversed)
Port 5          lineDetector VEX IQ Color Color Detector (Grayscale Mode)
*/

```



```

task main()
{

```

- Now begin your coding!  
The commands on the left side of your screen can be dragged and dropped within the coding area and modified for whatever task you are trying to accomplish.

Here is a little hint on how to get things moving

```

task main()
{
    //Forward
    setMotor(LeftMotor, -127);
    setMotor(RightMotor, 127);
    wait(1.5,seconds);
    stopAllMotors();
    wait(.2,seconds);
}

```

**Good Luck!**

The screenshot shows the VEX IQ software interface. On the left is the 'Text Functions' panel with a tree view of available code blocks. On the right is the 'VEX Start Page' showing a list of 23 lines of code. The code snippets visible are:

- Line 1: `#p1`
- Line 2: `#p1`
- Line 3: `#p1`
- Line 4: `getMotorBrakeMode(nMotorIndex);`
- Line 5: `getMotorEncoder(nMotorIndex);`
- Line 6: `/*-`
- Line 7: `t`
- Line 8: `]`
- Line 9: (empty)
- Line 10: `]`
- Line 11: `t`
- Line 12: (empty)
- Line 13: (empty)
- Line 14: `]`
- Line 15: `|`
- Line 16: `]`
- Line 17: `]`
- Line 18: `]`
- Line 19: `---`
- Line 20: `tas`
- Line 21: `{`
- Line 22: `:`
- Line 23: (empty)