```
classdef DCMotor < handle & matlab.mixin.CustomDisplay</pre>
 %DC Motor class for easy use of L293D motor Controller and DC Motor
 Preset to run at 100% duty cycle for 1 minute, with pin D5 of Arduino connected to
 the enable 1 pin of L293D, pin D3 connected to out1 of L293D, and pin
 D4 connected to out 2 of L293D.
To set different pins, simply put them in constructor. Can take 1-4
arguments.
 To run motor, call Run method. Without input aruments it will run at
 100% duty cycle for 1 minute. If you want to change the duration or
 duty cycle, simply input when calling method. Note, if you want to
 input a duty cycle, you need to input a duration as well.
Note - Currently only runs one direction. Currently no need to make it
 go the other way, will code it in if needed.
 응 }
 properties
    Arduino
    Enable = 'D5';
     DIR A = 'D3';
    DIR B = 'D4';
     Duration = 1;
     DutyCycle = 1;
 end
methods
     function obj = DCMotor(arduinoObj,enable pin,dir a pin,dir b pin)
         %UNTITLED Construct an instance of this class
            Detailed explanation goes here
         switch nargin
             case 1
                 obj.Arduino = arduinoObj;
             case 2
                 obj.Arduino = arduinoObj;
                 obj.Enable = enable pin;
                 obj.Arduino = arduinoObj;
                 obj.Enable = enable pin;
                 obj.DIR A = dir a pin;
             case 4
                 obj.Arduino = arduinoObj;
                 obj.Enable = enable pin;
                 obj.DIR A = dir a pin;
                 obj.DIR B = dir b pin;
         end
     end
     function Run(obj, Duration, DutyCycle)
```