***Credit Name: CSE 2920 - CSE Project C***

***Assignment: ReadButton***

***How has your program changed from planning to coding to now? Please Explain***

```
        //Create
        DigitalInput greenButton = new DigitalInput();

        //Address

        greenButton.setHubPort(5);
        greenButton.setIsHubPortDevice(true);

        //Open
        greenButton.open(1000);
```

***Using a similar method i declared an object for the green BUTTON, now indicating that it is a form of input via 'DigitalInput'.***

***I addressed the button by setting its hub port to its corresponding connection on the physical hub.***

***I opened and established a connection to the phidget with a 1 second interval to connect.***

```
        //Use your Phidgets
        boolean state_i = greenButton.getState();
        while(true) {
            boolean state_f = greenButton.getState();
            if(state_f != state_i) {
            System.out.println("Button State: " + greenButton.getState());
            state_i = state_f;
            }
            Thread.sleep(150);
        }
    }
```

***To get the state of the button only when it changes, I declared and initialized a boolean variable which is the initial state and set it to whatever the state of the button is before the loop starts. Then during the loop there is an if statement which only prints the buttons state when a new state is reached(when a button is pressed) i.e. when final state and initial state are different. Then the initial state is set to what the final state was, so now if the button was held down, multiple print statements would not happen because after the first iteration the initial and final state are the same.***