

Credit Name: CSE 2920 - CSE Project C

Assignment: BlinkLED

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

```
//Create
DigitalOutput greenLED = new DigitalOutput();

//Address

greenLED.setHubPort(4); //green led corresponds to the 4th port
greenLED.setIsHubPortDevice(true);

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

Firstly i needed to create an object for my green LED. It was important to specify it as being a 'DigitalOutput' rather than input since we are displaying the information (light) rather than inputting information into the program.

Then i needed to address exactly what the green LED is so i set it to be the connection at hub port 4 on the phidget which is where it was connected to.

Then I opened the green LED which established a connection to the LED light. The value of the argument means that 1000 ms is the interval in which the program has to locate and connect to the phidget, if not then an exception will be thrown.

```
for (int i =0; i <3;i++) //for loop repeats it 3 times
{

    greenLED.setState(true);
    Thread.sleep(2000);
    greenLED.setState(false);
    Thread.sleep(1000);

}
```

To get my LED to blink three times for 2 seconds each, I set up a for loop which goes from i= 0 to i = 2 ; therefore three iterations and then set the LED to be on, then pausing the system for 2 seconds before setting the LED off and waiting 1 second before starting

the next iteration. The LEDs are set on and off using a boolean command; true = LED on and false = LED off.