

Credit Name: CSE 2920 - CSE Project C

Assignment: DataInterval

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

```
import com.phidget22.*;
public class DataInterval {

    //Handle Exceptions
    public static void main(String[] args) throws Exception {

        //Create
        TemperatureSensor temperatureSensor = new TemperatureSensor();
        |
        //Open
        temperatureSensor.open(1000);
```

Temperature Sensor was set up.

```
//Temperature Event
temperatureSensor.addTemperatureChangeListener(new TemperatureSensorTemperatureChangeListener() {
    public void onTemperatureChange(TemperatureSensorTemperatureChangeEvent e) {
        System.out.println("Temperature: " + e.getTemperature());
    }
});

//Set Data Interval
temperatureSensor.setDataInterval(60000);

//Keep program running
while (true) {
    Thread.sleep(150);
}
}
```

I set up a temperature change event which prints temperature after a temperature change. Then I set the data interval to different values from 500 ms to 60 seconds. Changing the data interval changes how often i get a temperature reading. E.g. setting the data interval to 1000 means i get a reading every 1 second because the temperature sensor is only being checked every 1 second. So setting the data interval to 60000 means i get a temp reading every min.

Practice

1. Set the Data Interval to the minimum value: 500ms. Note the Output.
2. Set the Data Interval to the maximum value: 60,000 ms. Note the Output.
3. Would the LED or buttons have a data interval? Why or why not?

1. *Temp reading every $\frac{1}{2}$ a second.*
2. *Temp reading every minute.*
3. *LED or Buttons do not have a data interval because they are not sensing data or measuring any value.*