SDP EV3 Basic Motor and Sensor Scripts

**EV3 and NXT Large Motors**

```python
import ev3dev.ev3 as ev3
m = ev3.LargeMotor('outA')
m.run_timed(speed_sp=300, time_sp=1000)
```

**EV3 Medium Motors**

```python
import ev3dev.ev3 as ev3
m = ev3.MediumMotor('outA')
m.run_timed(speed_sp=300, time_sp=1000)
```

**RCX and Powerfunctions Motors**

ON the EV3 brick Select - *Device Browser - Ports - ev3-ports:outA - Set mode - dc-motor*

```python
import ev3dev2.motor as ev3
m = ev3.DcMotor('outA')
m.run_timed(time_sp=3000, duty_cycle_sp=100)
```

**EV3 and NXT Touch Sensors**

```python
import ev3dev.ev3 as ev3
ts = ev3.TouchSensor()
ts.connected
print(ts.value())
```

**EV3 Ultrasonic Sensor**

```python
import ev3dev.ev3 as ev3
us = ev3.UltrasonicSensor('in1')
us.mode = 'US-DIST-CM'
print(us.value(), "mm")
```

**EV3 Gyro Sensor**

```python
import ev3dev.ev3 as ev3
gy = ev3.GyroSensor('in1')
print(gy.value())
```
EV3 Color Sensor

import ev3dev.ev3 as ev3
cs=ev3.ColorSensor('in1')
cs.mode = 'COL-COLOR'
print(cs.value())

NXT Ultrasonic Sensor

import ev3dev.ev3 as ev3
us=ev3.UltrasonicSensor('in1')
us.mode = 'US-DIST-CM'
print(us.value(), "cm")

EV3 Infrared Sensor

import ev3dev.ev3 as ev3
ir = ev3.InfraredSensor('in1')
ir.mode = 'IR-PROX'
print(ir.value())

NXT Light Sensor

import ev3dev.ev3 as ev3
l = ev3.LightSensor('in1')
l.mode = 'AMBIENT'
print(l.value())

NXT Sound Sensor

ON the EV3 brick Select - Device Browser - Ports - ev3-ports:in1 - Set device - lego-nxt-sound
And Select - Device Browser - Ports - ev3-ports:in1 - Set mode - nxt-analog

import ev3dev.ev3 as ev3
s = ev3.SoundSensor('in1')
print(s.value())

For more detailed information on sensor modes and motor control functions as well as other types of supported sensors and motors see the link below:-