**Pi2Go Programming: WS8 Sample Answers and Troubleshooting**

**Question 1:** The program prints “Waiting” until the switch is pressed. Then it flashes its LEDs.

**Exercise 1:** Notice that three while loops are needed - wait for the switch to be switched on, wait for the switch to be switched off and then wait for the switch to be switched on again. Students may need some help thinking through this.

import pi2go, time

pi2go.init()

while not (pi2go.getSwitch()):

print("Waiting")

pi2go.setAllLEDs(4095, 4095, 4095)

while (pi2go.getSwitch()):

print(“Waiting for Switch Off”)

while not (pi2go.getSwitch()):

print(“Still Waiting”)

pi2go.setAllLEDs(0, 0, 0)

**Exercise 2:** pi2go.getSwitch() or pi2go.irCentre()

**Program:**

import pi2go, time

pi2go.init()

if (pi2go.getSwitch() or pi2go.irCentre()):

pi2go.reverse(10)

while (pi2go.getSwitch()):

print(“Waiting for Switch Off”)

while not (pi2go.getSwitch()):

print(“Still Waiting”)

pi2go.stop()

**Exercise 3:** pi2go.getSwitch() and not (pi2go.irCentre())

**Program:**

import pi2go, time

pi2go.init()

if (pi2go.getSwitch() and not (pi2go.irCentre())):

pi2go.forward(10)

while (pi2go.getSwitch()):

print(“Waiting for Switch Off”)

while not (pi2go.getSwitch()):

print(“Still Waiting”)

pi2go.stop()



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