**Initio Programming: WS11 and Ex11 Sample Answers and Troubleshooting**

**WS11**

**Sample Answer 1:**

Sensor: getDistance(), Motor: forward(10) and spinLeft(10) or spinRight(10)(speed values may vary)

**The Program:**

import robohat as initio, time

initio.init()

time.sleep(30)

while True:

 while (initio.getDistance() > 50):

 initio.forward(10)

 while not (initio.getDistance() > 50):

 initio.spinLeft(30)

**Program Modified to Stop Cleanly**

import robohat as initio, time

initio.init()

while (initio.getDistance() > 5):

 continue

while not (initio.getDistance() > 5):

 continue

while (initio.getDistance() > 5):

 while (initio.getDistance() > 50):

 initio.forward(10)

 while not (initio.getDistance() > 50):

 initio.spinLeft(30)

initio.stop()

**Ex11**

import robohat as initio, time

initio.init()

while (initio.getDistance() > 5):

 continue

while not (initio.getDistance() > 5):

 continue

while (initio.getDistance() > 5):

 while (initio.irLeftLine()):

 initio.spinLeft(10)

 while (not initio.irLeftLine() and not initio.irRightLine()):

 initio.forward(30)

 while (initio.irRightLine()):

 initio.spinRight(30)

initio.stop()



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