**Virtual 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 simclient.simrobot 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 simclient.simrobot 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 simclient.simrobot 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()



University of Liverpool, 2019

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