Pseudo Code for Part 1(Connecting to an ADXL345 accelerometer)

Include libraries needed to run program

Include the header file wire.h

Include the header file Adafruit\_Sensor.h

Include the header file Adafruit\_ADXL345\_U.h

Create 3 global variables of type float defining x,y,z axis, assigning the value 0 to them

Create a global variable that holds connection

Create a main function with an argument of void and returns void

Within the main block(

Create an if statement where it checks if the value returns false

Within the if block(

If argument is 0 from checking if device is connected, create a print statement that prints to console that the ADXL345 was not detected and you should check for the reason why

Call an exit function with argument 1

)

Assign the connection variable to the output of sql connect function with arguments of database address, user name, password, port, and connection type

Check if value of connection is null

Within the block(

If argument null create a print statement that prints to console “SQLITE connection failed”

Call exit function with argument of 1

)

Create a forever loop

Within block(

Assign values generated by sensor to global variables that define the x,y, and z axis

Call query function with the connection variable, and pass the queries to input variable values into data base

)

Call the function that will close the connection

)

Earl,Bill.(Pub.March 23,2013;Update.Oct,9,2018).Programming and Calibration.Retrieved from https://learn.adafruit.com/adxl345-digital-accelerometer/programming