**Code conversation full solution - Slider number**

**Code for program is here: https://tinyurl.com/239dtxk3**

**Describe what the whole program is doing in a couple of sentences:**

This program displays a single digit between 0 and 9 depending on the position of the slider.

**Fill in the blanks**

|  |  |
| --- | --- |
| ***Code*** | ***What is this line doing?*** |
| from microbit import | imports the micro:bit module to give you access to all the hardware that is built-in into your board |
| while True: | Loop forever |
| x = int(pin2.read\_analog() / 110) | The function pin2.read\_analog gives a number between 0 and 1023 depending on the voltage at pin2. This would be a float but the explicit casting ensures that the output is an integer between 0 and 9. The highest it would be is 1023/110 which is 9.3, once the variable is cast as an integer it becomes 9. |
| display.show(x) | ...call the inbuilt function display.show() so that the LED displays the contents of the x variable which is an integer between 0 and 9.. |
|  |  |