**Code conversation level 2 - Slider bar graph**

**Code for program is here: https://tinyurl.com/ybc8crx8**

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

**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 |
| This function will determine the bargraph display on the micro:bit |  |
| def bargraph(a): |  |
| display.clear() |  |
| for y in range(0, 5): |  |
| if a > y: |  |
| for x in range(0, 5): |  |
| display.set\_pixel(x, 4-y, 9)\* | ...call the inbuilt function display.set\_pixel() so that the ‘for x’ loop lights up all the LEDs in the current row. |
| while True: |  |
| slider\_posn = int(pin2.read\_analog() / 200) | The function pin2.read\_analog gives a number between 0 and 1023 depending on the voltage at pin2. This is then divided by 200. This gives a maximum position reading of 1023/200=5 (once it has been cast as an integer). |
| bargraph(slider\_posn) | The value for slider position is now passed back as a parameter to the function bar graph. |

\*display.set\_pixel(x,y,value) - this inbuilt function sets the brightness of the LED at row x and column y to value, which has to be an integer between 0 and 9. In this case the brightness is always set to the maximum 9.