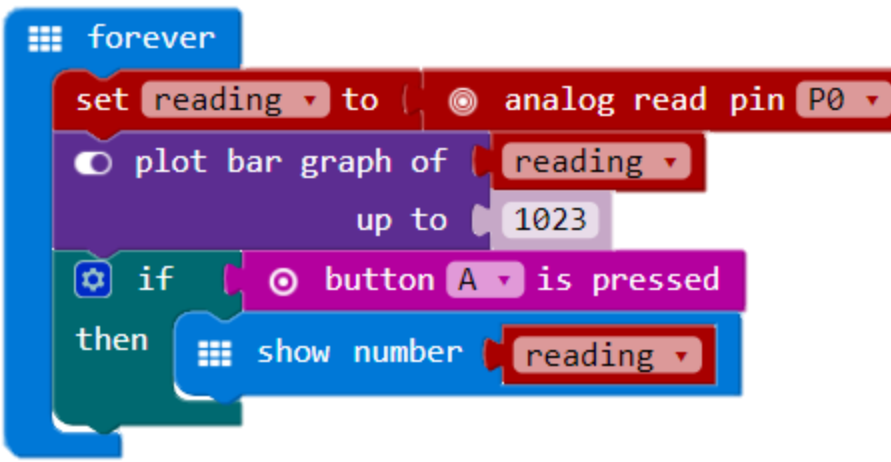


Coding your soil moisture sensor



Navigate to <https://makecode.microbit.org/>

1. Under the Basic menu, click and drag code block “forever” to work space.
2. Under the Variables menu, click and drag code block “set item to” to work space.
 - a. Select “item” drop down menu. Rename variable as “reading”.
 - b. Scroll down to Advanced menu and click to show more menu options
 - c. Under the Pins menu, click and drag code block “analog read pin P0” to work space. Connect to “set reading to” code block.
3. Under the Math menu, click and drag code block “plot bar graph of...up to” to work space.
 - a. Under the Variables menu, click and drag code block “reading” to work space. Connect to “plot bar graph of” code block.
 - b. Under the Math menu, click and drag code block “0” to the work space. Connect to “up to” code block. Change “0” to “1023”.
4. Under the Logic menu, click and drag code block “if true... then” to the work space.
 - a. Under the Input menu, click and drag code block “button A is pressed” to the workspace. Connect to “if” code block.
 - b. Under Basic menu, click and drag code block “show number 0” to the work space. Connect to “then” code block.
 - c. Under Variables menu, click and drag code block “reading” to workspace. Replace “0” code block after “show number”.