

Assignment

Below is an assignment as part of the training. This assignment is for self-study and won't be counted for evaluation. Hence, you need not submit the assignment. You can, however, document your answer in your personal notebook and save it for your future reference. There will be no submission of this assignment.

In the assignment for this section here are a few tasks which you should carry out to understand the graphing features in more depth.

Please download the assignment from Visualization with Bolt Cloud Assignment (https://s3-ap-southeast-1.amazonaws.com/training-uploads/iot/content_media/assignment_bolt_graph.pdf) and perform the tasks listed in the document.

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Q. I am not able to see my data being plotted on the graph however data is present in downloaded CSV file. How do I debug this issue?

In most such cases, the variable name entered has an error in it. Please follow the steps given below to debug this issue:

1. Make sure the variable name mentioned in the line `plotChart('time_stamp','your_variable_name');` is correct. It should be same as the name you suggested while selecting the pins in the hardware configuration.
2. Check if you have replaced the word `your_variable_name` with the variable name you have given. e.g. if your variable name for Pin A0 is `temp` then your code line will be `plotChart('time_stamp','temp');`

[see more \(\)](#)

Q. How can I hide download Button in the graph?

Ah ! This is an interesting question. Just add the line `dataDownload('false');` at the end of your code.

Q. What is time_stamp? an inbuilt variable?

`time_stamp` is an inbuilt variable that stores the time in which the data was collected.

Q. What are some useful resources for understanding MCU, PWM and ADC concepts?

To know more about MCU, PWM and ADC refer to the following links:

1. MCU (Microcontroller Unit): <https://internetofthingsagenda.techtarget.com/definition/microcontroller>
 2. PWM (Pulse width modulation): <https://www.techopedia.com/definition/9034/pulse-width-modulation-pwm>
 3. ADC (Analog to Digital converter): <https://www.electrical4u.com/analog-to-digital-converter/>
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Q. Why is my gauge not showing a needle? It shows a NaN.

It might be because the variable that you have used to plot the data is not a number(NaN). Please check if the variable name used in plotChart() function is the same as the variable used in the Hardware Config.

You can also use the code import feature available on the top right side of the product page next to the save icon to generate code for your graph automatically.

[View more](#)

Ask your doubts to the instructor personally if they are not already answered on forum.

Type what you want to ask the instructor



ASK THE INSTRUCTOR