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Assignment 1 - Basic Blink

Goals

- Test software installation
- Test device configuration

Requirements

- Connect to additional Wifi networks (optional)
- Create a Workbench project
- Setup project settings
- Flash firmware to device

Connect to additional Wifi networks

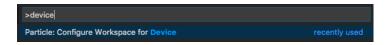
- The Argon can remember the settings for multiple Wifi networks (just like a phone). If you need to configure for a different network than the one you first connected it, first connect the Argon via USB to your computer and open Workbench
- Go to View > Command Palette
- Type Particle: Launch CLI
- In the new window, type
 particle serial wifi --port COM4 -verbose
- Follow the instructions to connect to the new Wifi

Create Workbench Project

- Follow the instructions to create a Workbench project: https://docs.particle.io/quickstart/workbench/#create-a-project
- Complete only the first step (do not move onto Compile Project

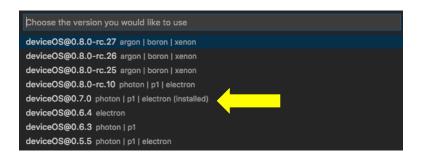
Setup device settings

- In Workbench, Go to View > Command Palette
- Type Particle: Configure Project for Device.



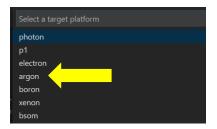
• Select the device OS version you want to like to build for. It is recommended to use the latest stable version (this means the highest numbered version <u>without</u> **rc** or **beta** in the name). This means you are using the newest version of the operating system that is not being test (and so presumably it does not have bugs or errors). In the picture below, the latest stable version has been noted.

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Select the type of device to you want to build for. For our course, we will always use argon



• Enter the name of the device you want to flash to. This will be the name gave your device when you initially connected it to your Particle account.

```
test2
Press 'Enter' to confirm your input or 'Escape' to cancel
```

Flash Firmware to Device

• In the INO file that opened when you created a project, paste the following code:

```
Final Process | Process |
```

```
void setup() {
   pinMode(D7, OUTPUT);
}

void loop() {
   digitalWrite(D7, HIGH);
   delay(1000);
   digitalWrite(D7, LOW);
   delay(1000);
}
```

- In the Command Palette, type Particle: Cloud Flash
- It may take a few minutes to successfully complete. When the firmware has been successfully installed, you should see the light on the device near the USB port blinking blue.



Deliverables

1. A compressed file containing your project. Follow the guidelines for full credit.

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Here are the instructions for submission

- a) Navigate to your project folder.
- b) Include the *entire* folder in a zip file
- c) Rename the zip file so it follows this convention: A#.lastname.firstname
- d) Upload zip file to Blackboard site for our course
- 2. A photograph of your device connected to USB with the blue light on.

Grading

Item	Points
Project code	5
Device photo	5
Total	10