Build IoT solutions with YeeLight and Microsoft Flow

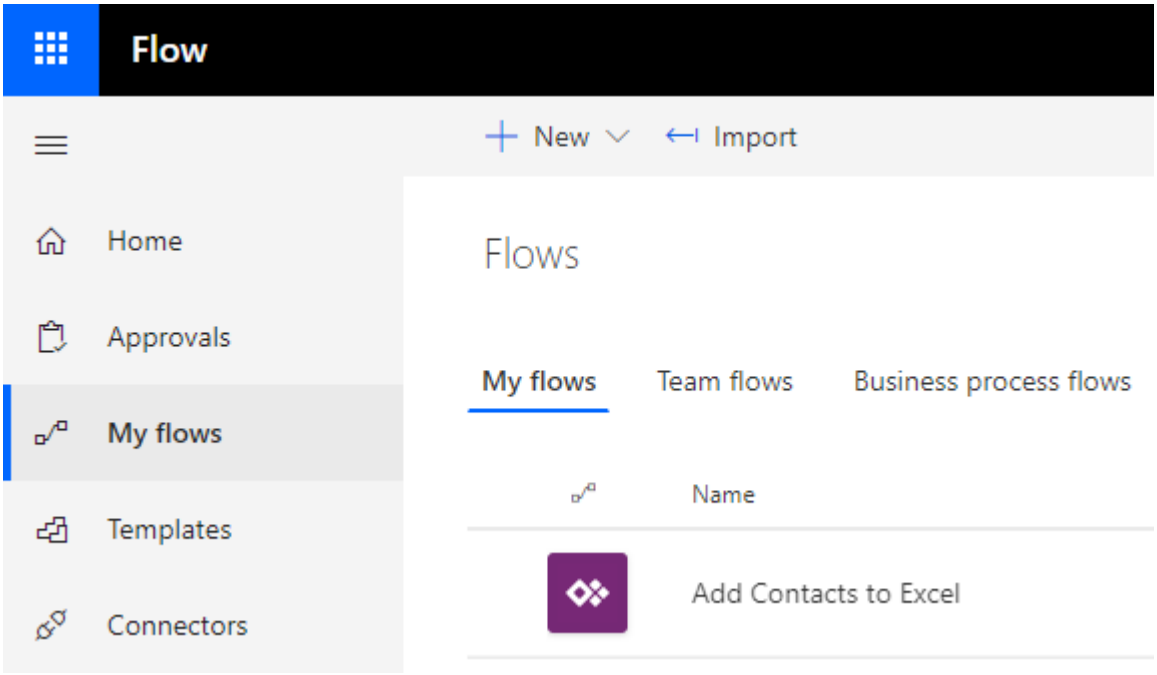
This is a tutorial to build solution with IoT light which integrate with Microsoft Flow. You can keep them around your home and track data about your daily life.

Prerequisites:

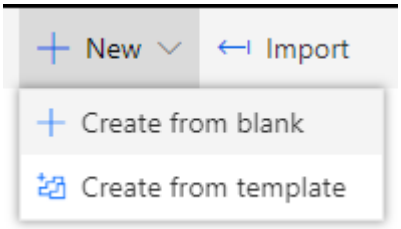
1. Mi Home Account
2. Registed YeeLight in Mi Home App
3. Microsoft Flow Account
4. Microsoft Flow App (Android/iOS)

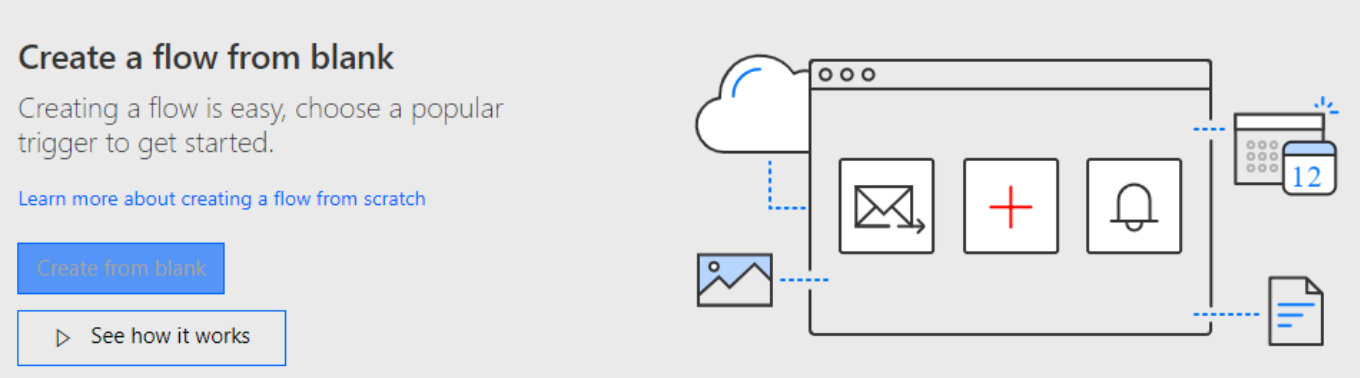
Create a new Microsoft Flow

Sign in to Microsoft Flow and create new flow in `My flows`



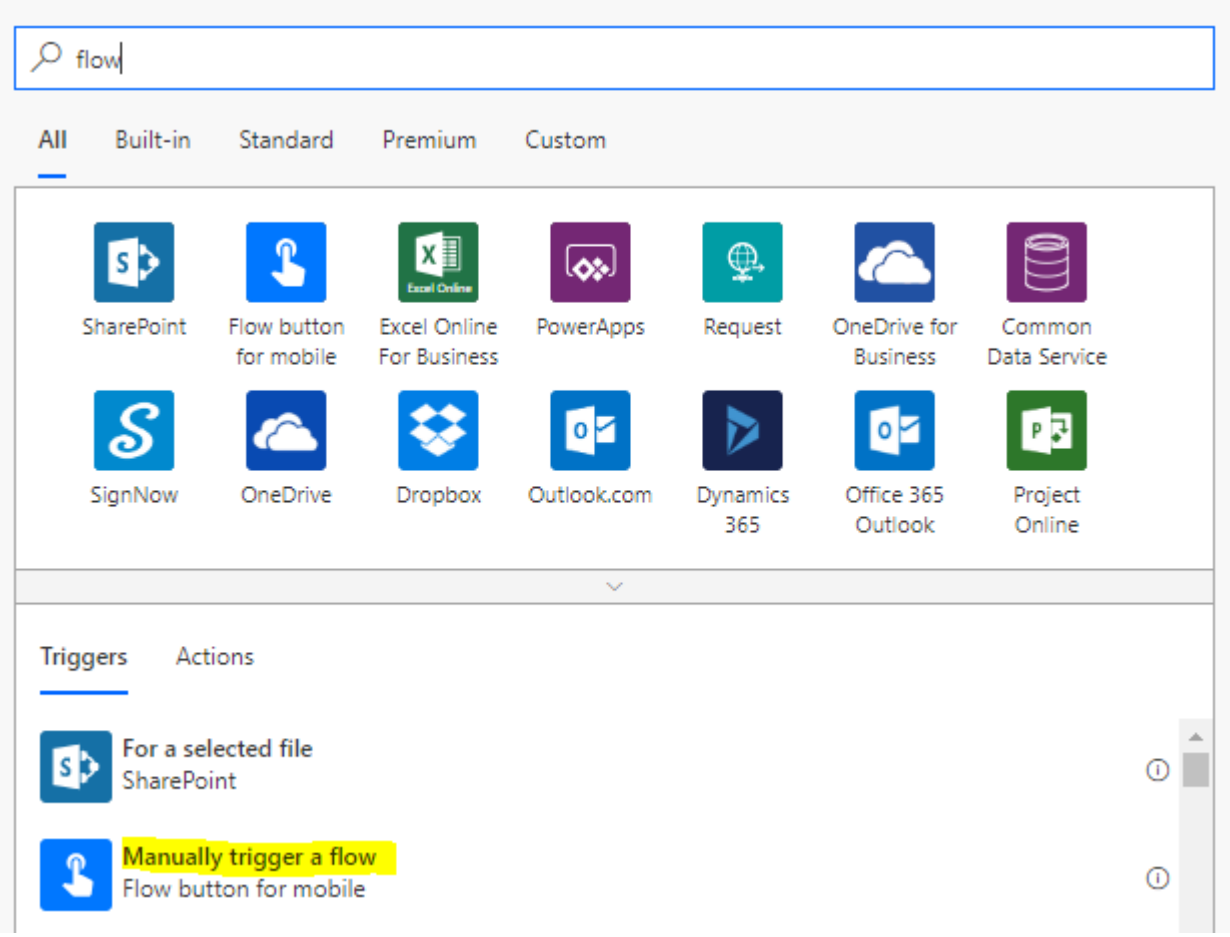
Click `Create from black`



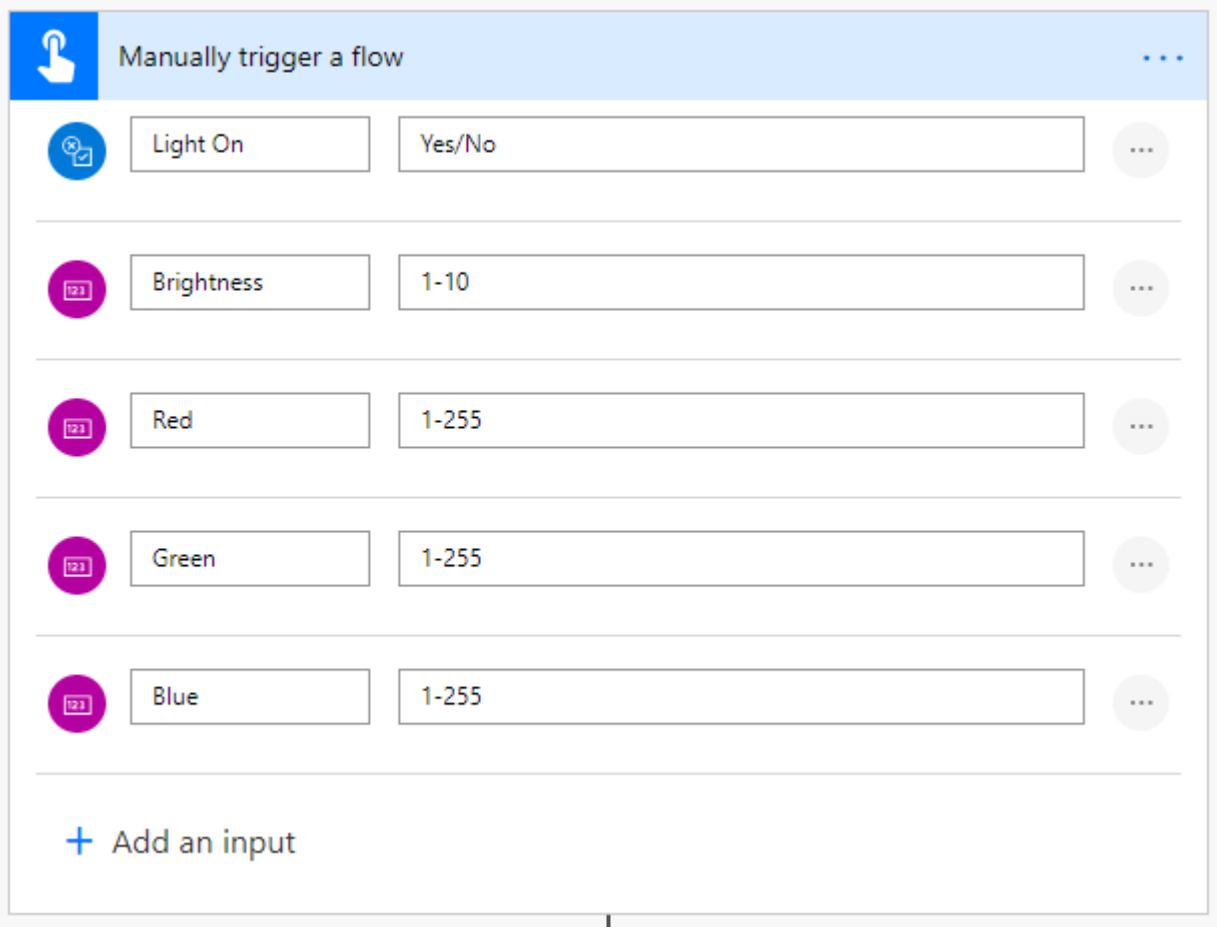


Add Microsoft Flow trigger

Search `flow` in search bar, then select `Manually trigger a flow`

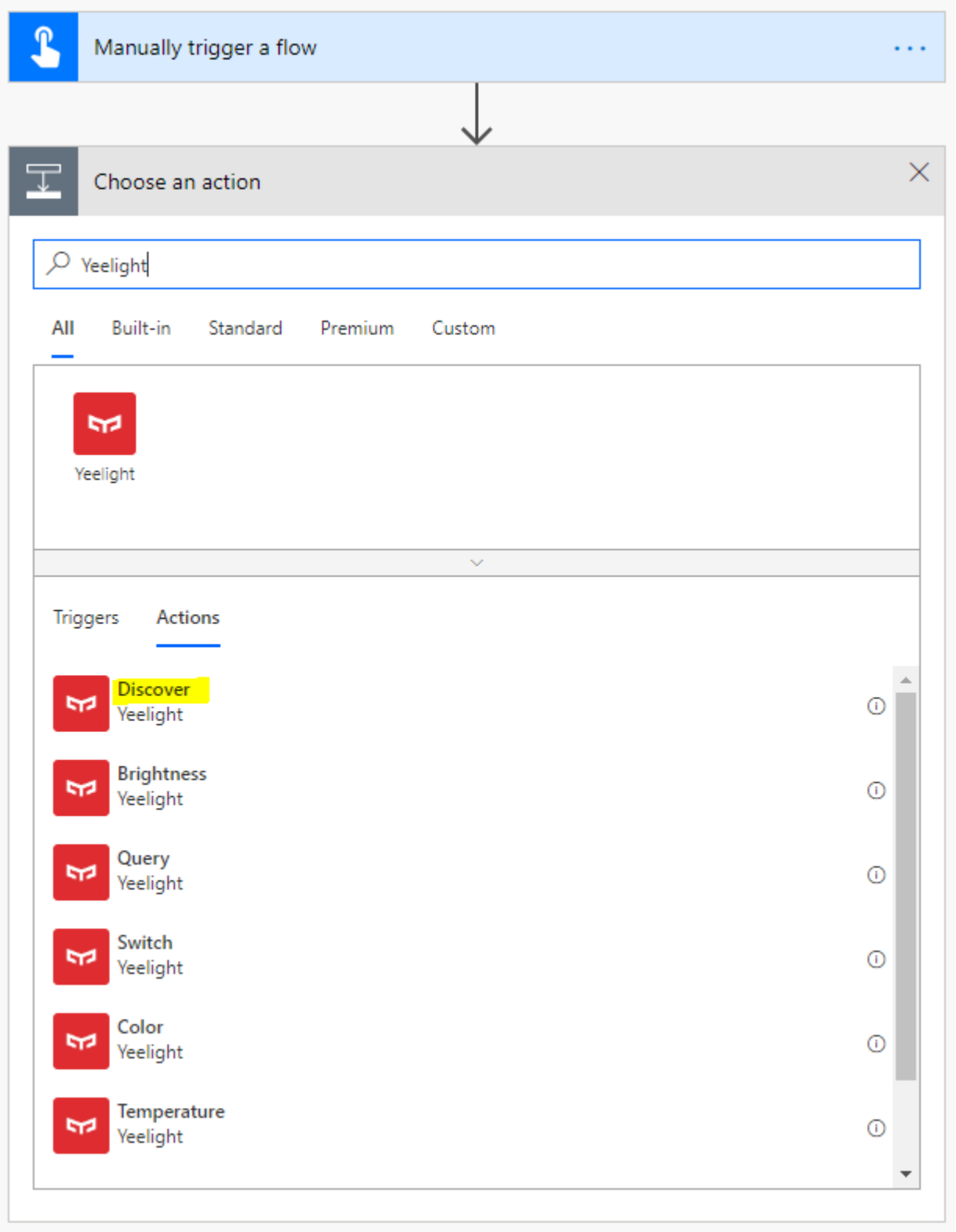


Add inputs as below (`Light On: Yes/No`, `Brightness: number`, `Red: number`, `Green: number`, `Blue: number`)

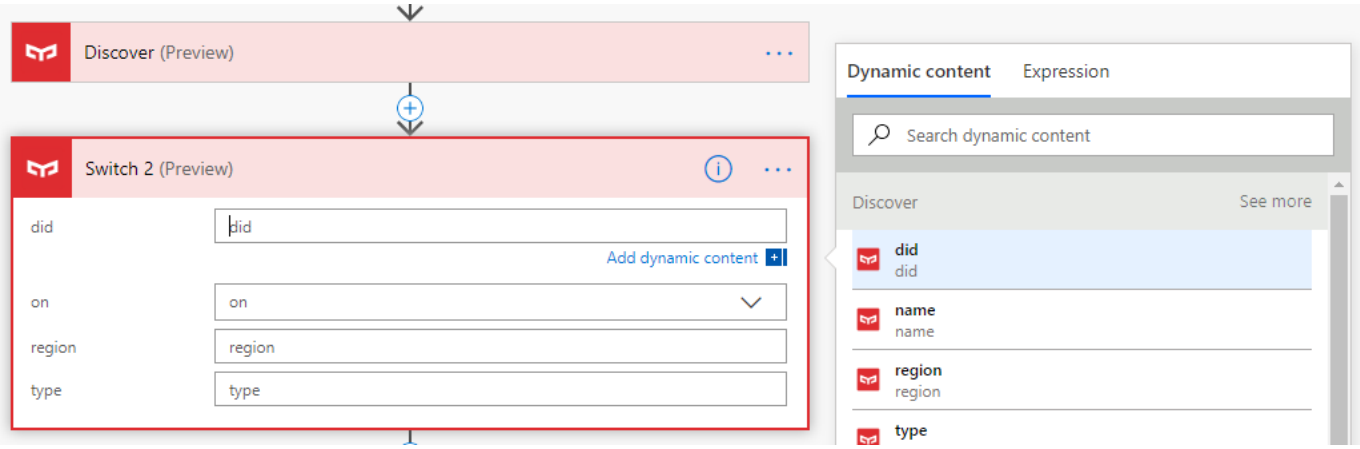


Add Microsoft Flow action

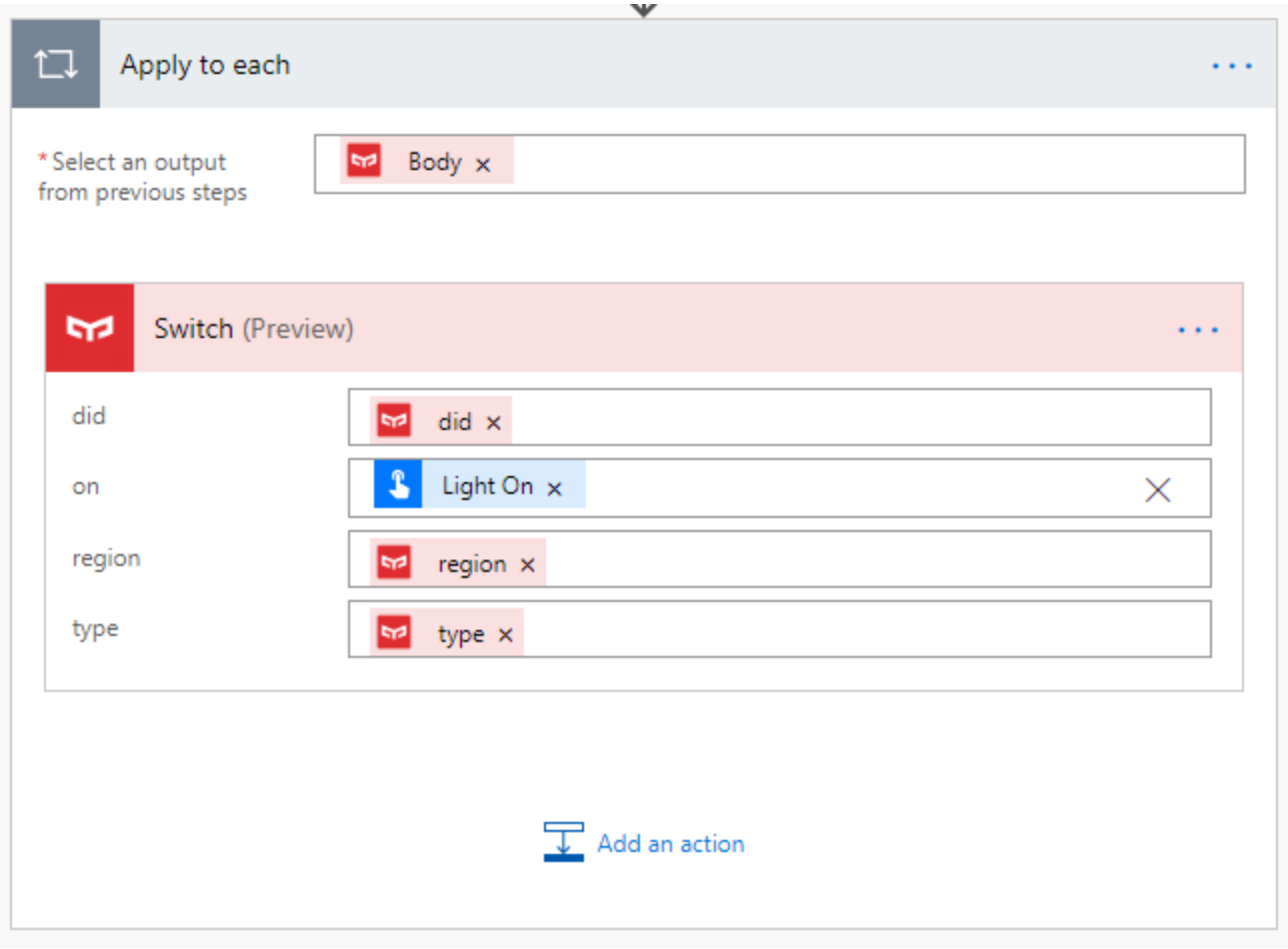
1. Click + below the trigger
2. create an action
3. Search `Yeelight`
4. Select `Discover`



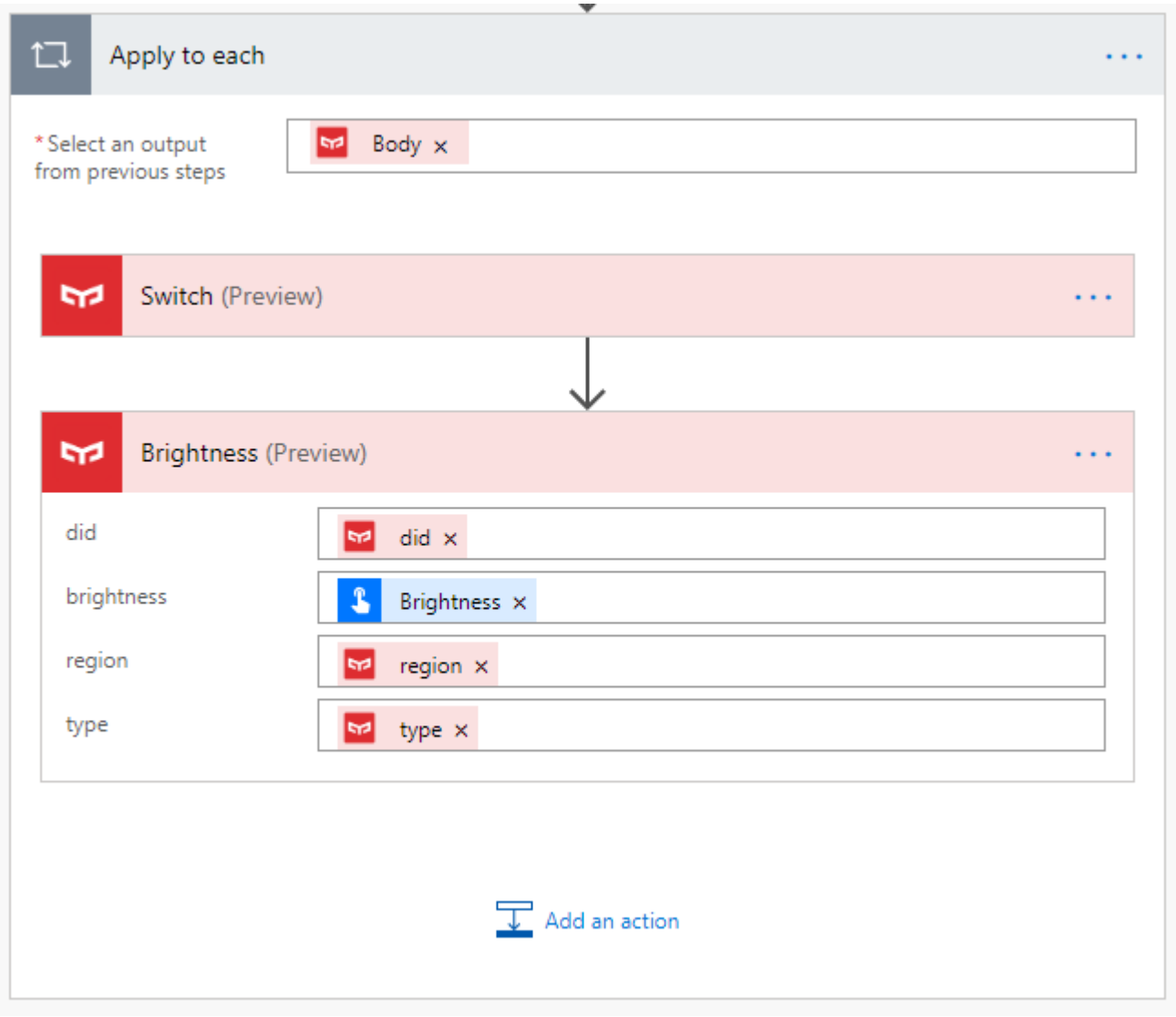
5. Repeat **1-4**
6. Select `Switch`
7. Click `did` text field and select `did` in dynamic content



8. Fill in the rest like image below

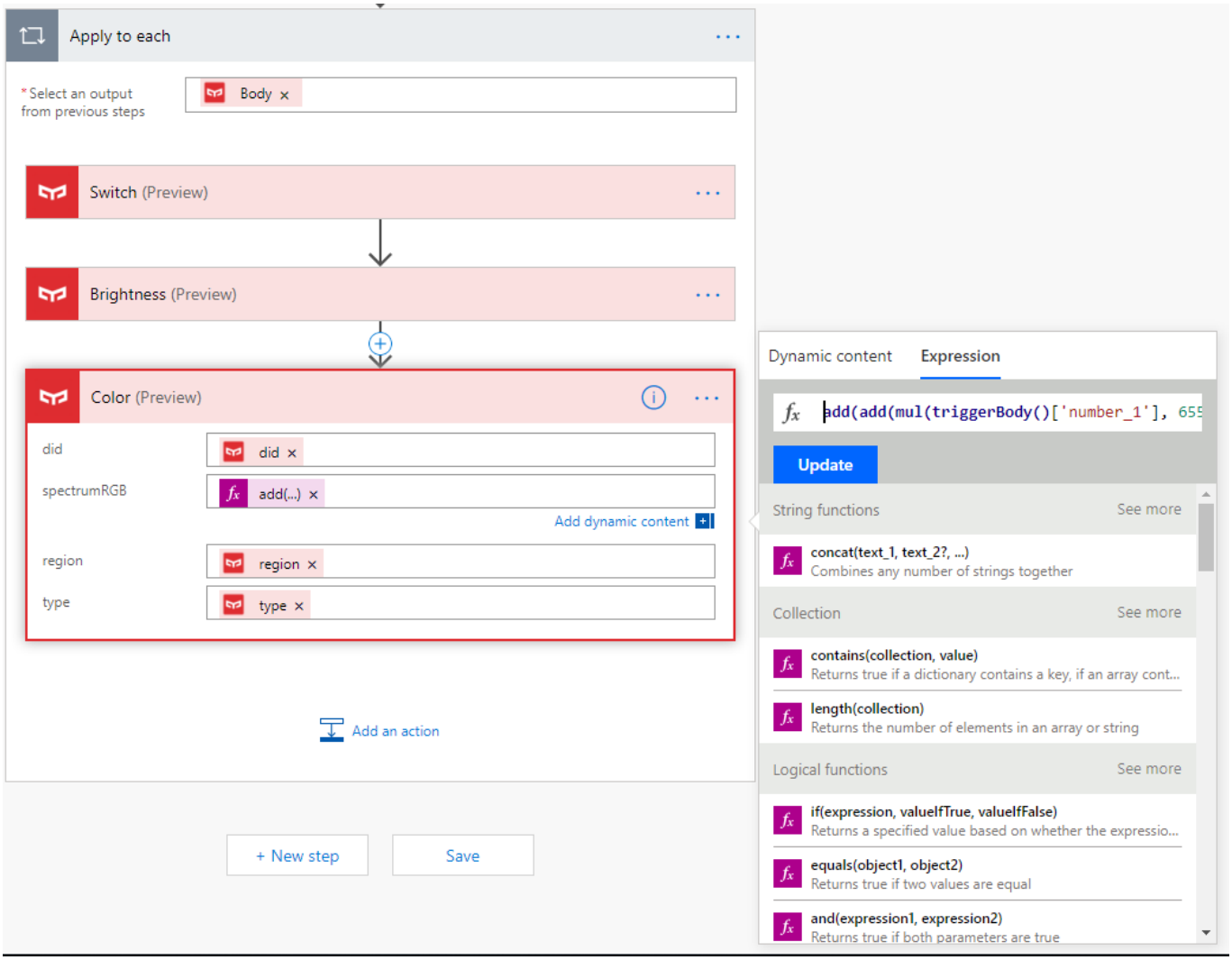


9. Repeat **1-4**
10. Select `Brightness`
11. Fill in the rest like image below



9. Repeat **1-4**
10. Select `Color`
11. Fill in the rest like image below. The fomula is

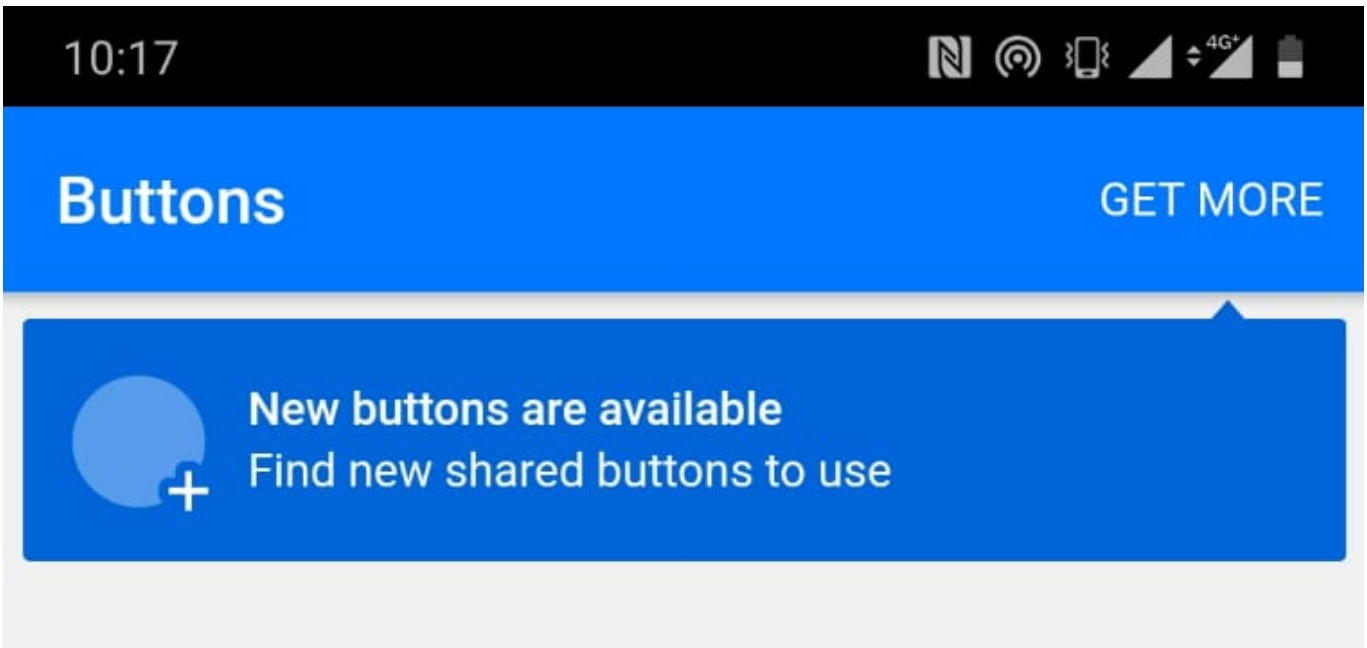
```
add(add(mul(triggerBody()['number_1'], 65536), mul(triggerBody()['number_2'], 256)), triggerBody()['number_3'])
```

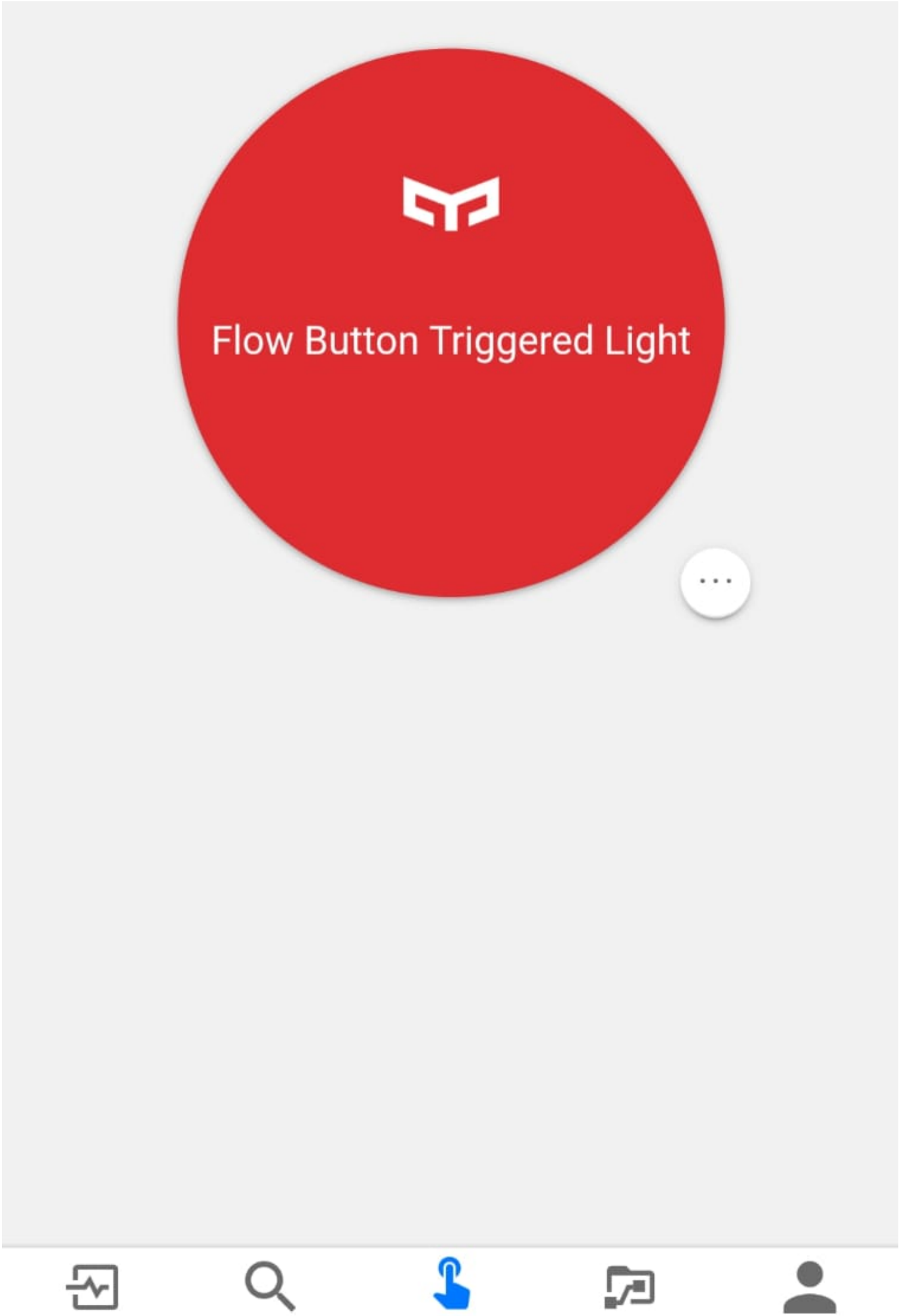


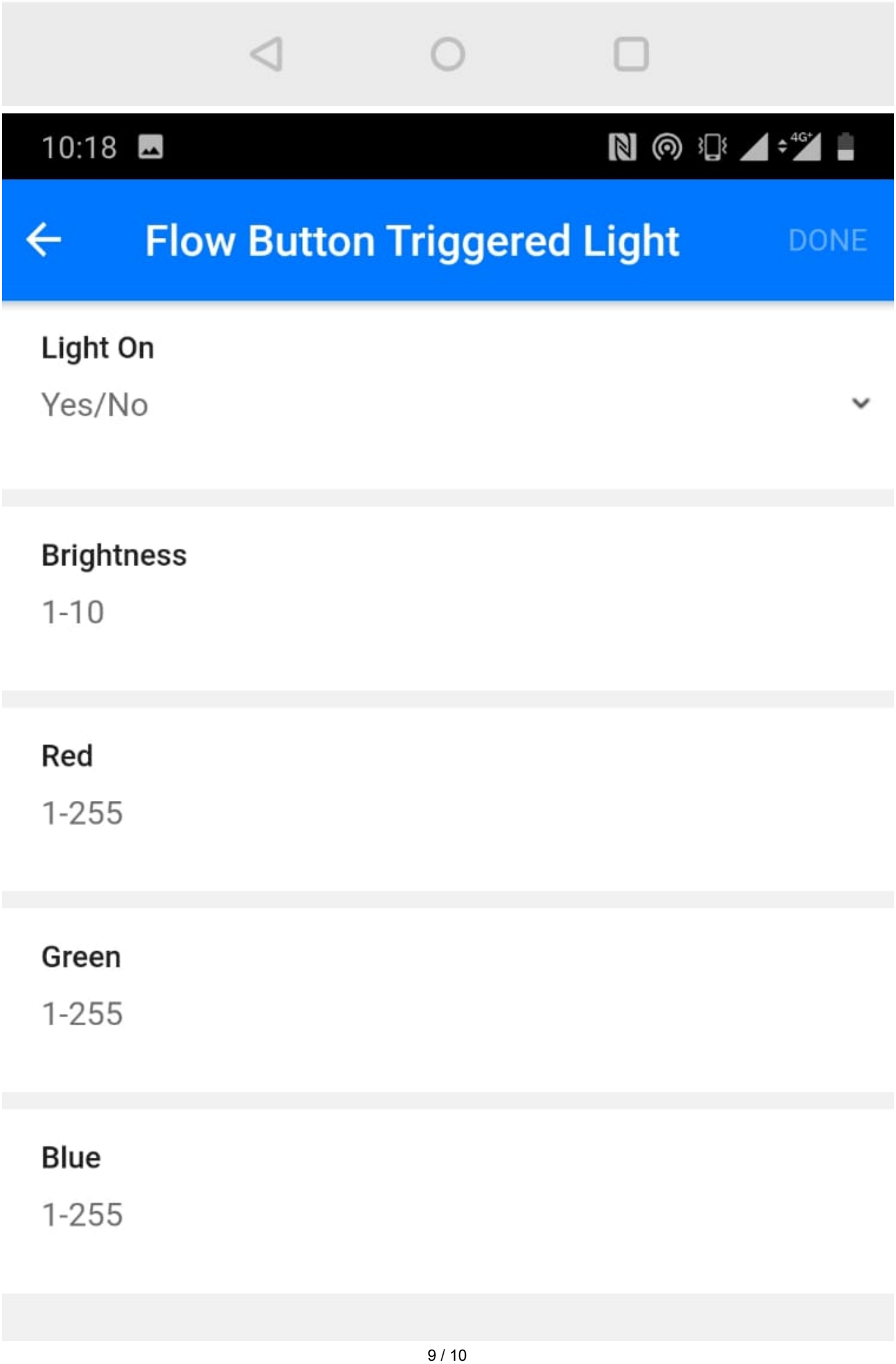
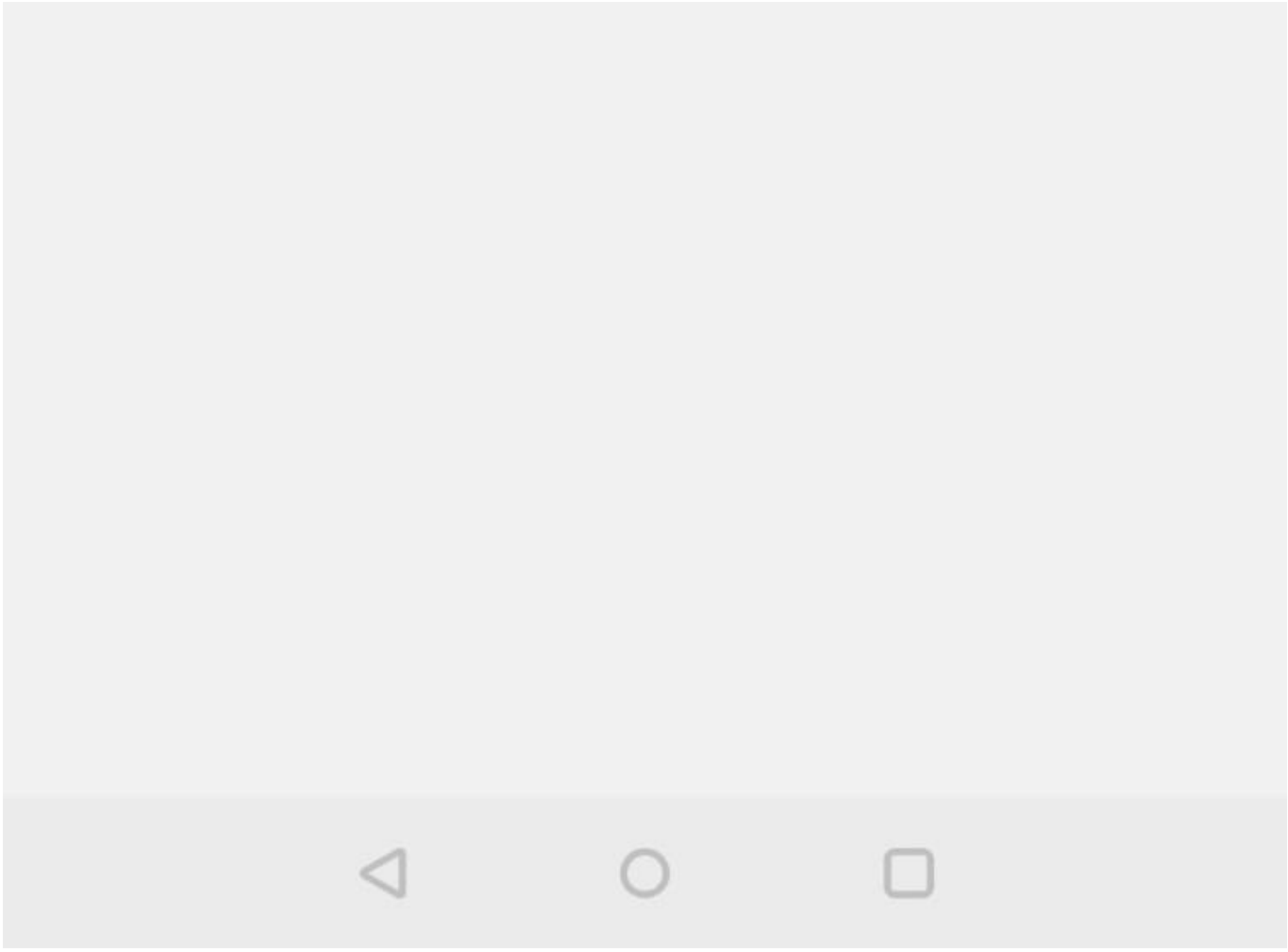
RGB (Red, Green, Blue) are 8 bit each. The range for each individual colour is 0-255 (as 2^8 = 256 possibilities). The combination range is 256256256.

Test Microsoft Flow

Open Microsoft Flow App in mobile phone and test




Flow Button Triggered Light
Activity
Browse
Buttons
Flows
Account


10:18
Flow Button Triggered Light
DONE
Light On
Yes/No
Brightness
1-10
Red
1-255
Green
1-255
Blue
1-255