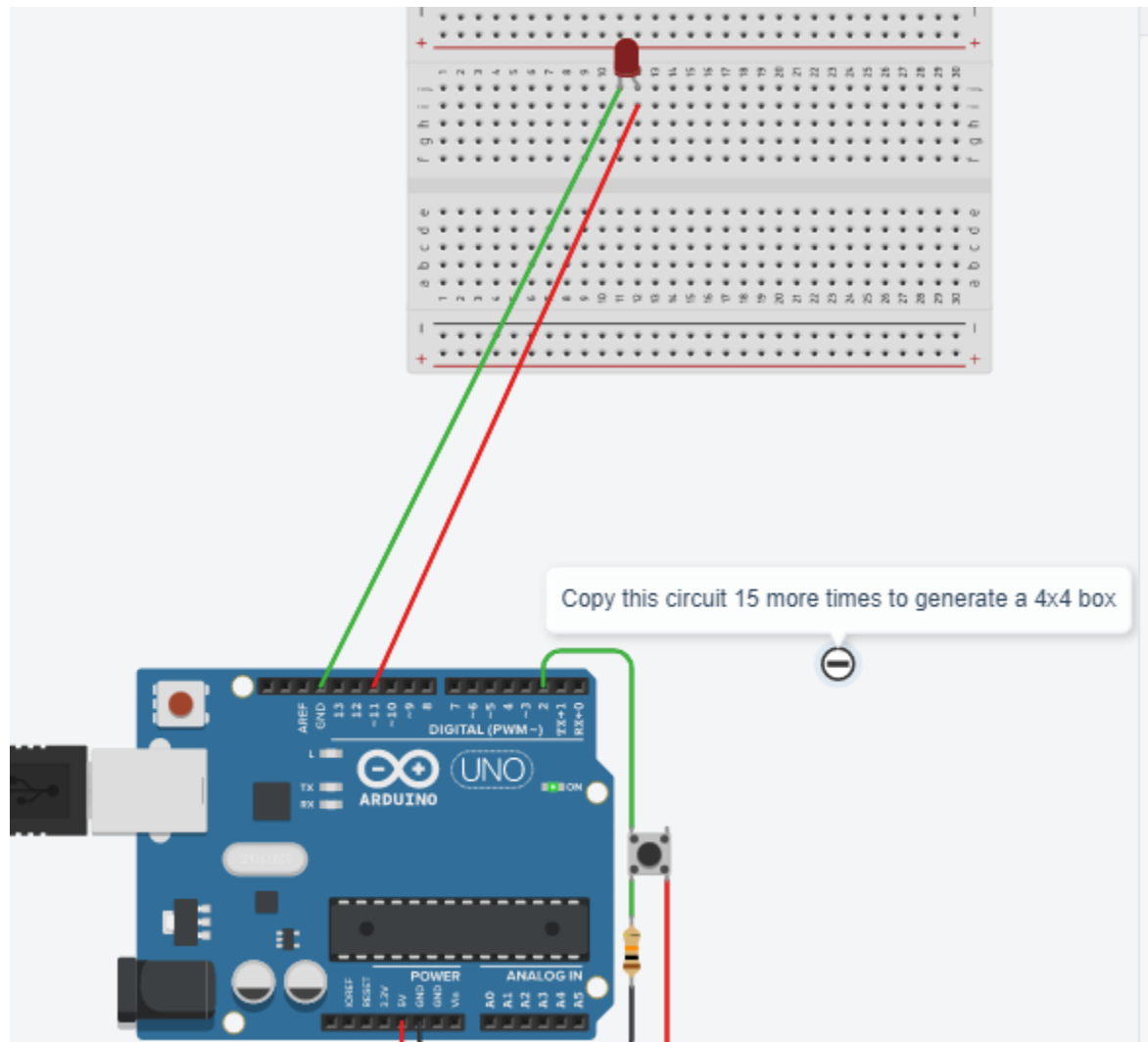


Design a system for an open 4 x 4 tiled dancing stage such that whenever the dancers place their feet on a particular tile, it gets enlightened for 2 ms



Concept used- To create a lighting floor we need to use a push button with a led and by using delay for 2ms we can glow the light for required time as given below in code-

```
int pinButton = 2;
```

```
int LED = 11;
```

```
void setup() {
```

```
    pinMode(pinButton, INPUT);
```

```
    pinMode(LED, OUTPUT);
```

```
}
```

```
void loop() {
```

```
    int stateButton = digitalRead(pinButton);
```

```
    if(stateButton == 1) {
```

```
        digitalWrite(LED, HIGH);
```

```
        delay(2);
```

```
    } else {
```

```
        digitalWrite(LED, LOW);
```

```
}
```

}

OBSERVATIONS- The led will glow for 2ms.

Problem and troubleshooting-

1. This is hard to make 4x4 tiles as it require 16 output as well as input and a single aurdino can't do this

SOLUTION-Using different different aurdino we can easily make this setup.

PRECAUTION- The push button needs to be earth careful and all connection should be done properly.

LEARNING OUTCOMES- 1. using aurdino

2.Using push button

3.implementing this concept in real life