```
int LedPinA = 5;
int LedPinB = 6;
int ButtonPinA = 7;
int ButtonPinB = 4;
int buttonStateA = 0;
int buttonStateB = 0;
int brightness   = 0;

void setup()
{
    pinMode(LedPinA, OUTPUT);
    pinMode(LedPinB, OUTPUT);
    pinMode(ButtonPinA, INPUT);
    pinMode(ButtonPinB, INPUT);
}

void loop()
{
  buttonStateA = digitalRead(ButtonPinA);
  if (buttonStateA == HIGH && brightness != 255)
  {
   brightness ++;
  }

   buttonStateB = digitalRead(ButtonPinB);
   if (buttonStateB == HIGH && brightness != 0)
  {
   brightness --;
  }
```

```
    analogWrite(LedPinA, brightness);  //  A will turn off gradually
    analogWrite(LedPinB, 255 - brightness);  // B will turn on gradually
    delay(25);
}
```

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