

IOT LAB - 5th Sem

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To demonstrate working of LED fading in and out

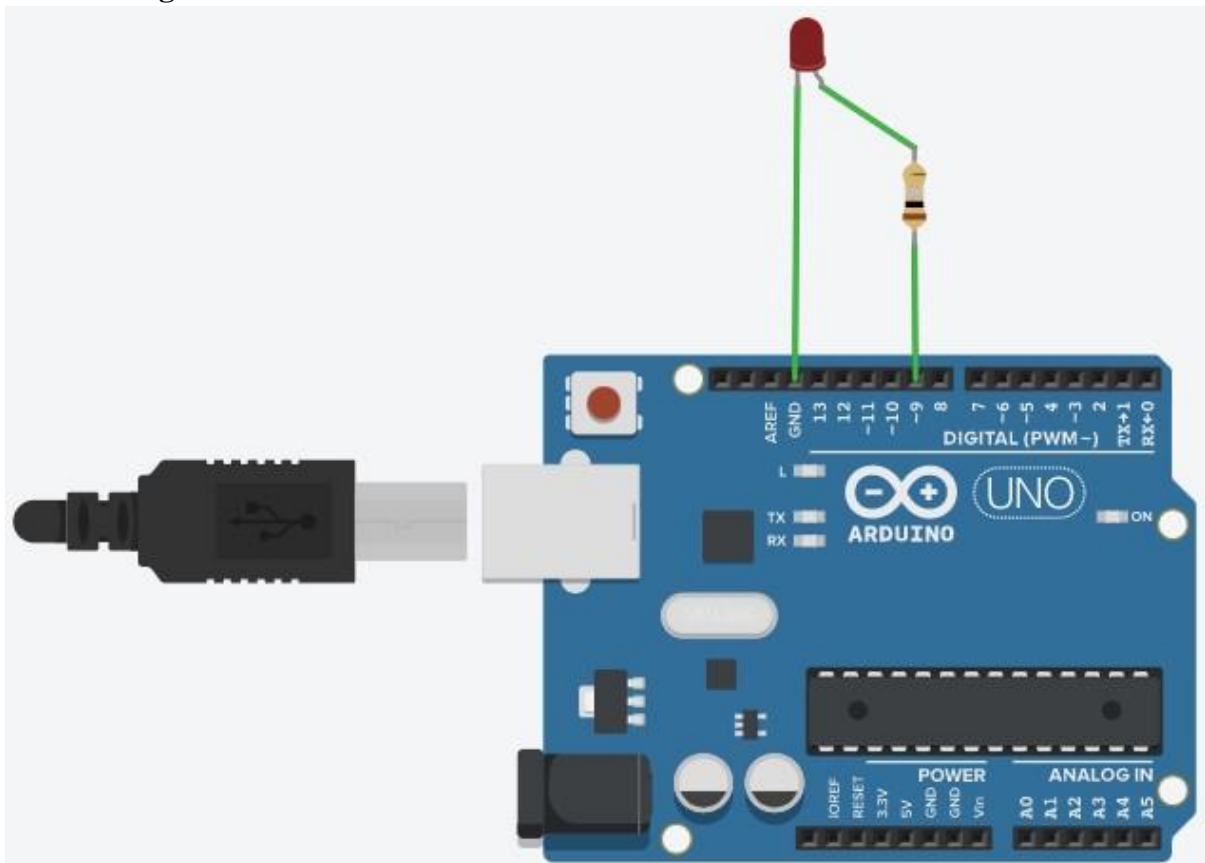
Aim :

To fade a bulb on and off using an Arduino Uno board.

Hardware Required :

- Arduino Uno Board
- LED bulb
- Resistor

Circuit Diagram –



Written Code :

```
void setup()  
{  
  pinMode(9, OUTPUT);  
}  
void loop()  
{  
  for (int i=0; i<300; i+=10)  
  {  
    delay(100);  
    analogWrite(9, i);  
  }  
  for (int i=300; i>0; i-=10)  
  {  
    delay(100);  
    analogWrite(9, i);  
  }  
}
```

Observation /Output:

The LED bulb was faded on and off with a delay of 100ms.