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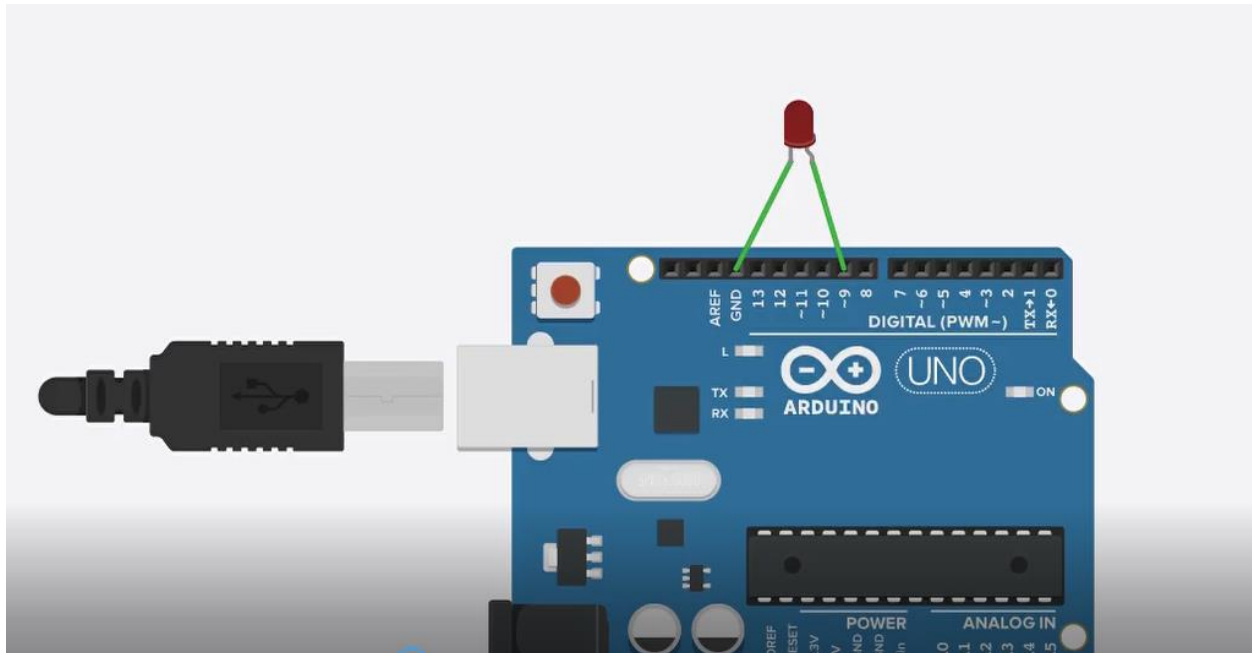
PROGRAM TITLE: LED FADING

Aim: DEMONSTRATE TO SHOW LED FADING(ANALOG OUTPUT)

Hardware Required:

- Arduino Board
- LED

Circuit Diagram:

Write-Up:

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Expt. No..... 4   Page No... 6

Program Title: LED FADING

Aim: Demonstrate to show LED Fading (Analog output)

Hardware Required:
- Arduino board
- LED.

Code:-

```
int brightness = 0;

void setup()
{ pinMode (9, OUTPUT);
}

void loop()
{ for (brightness = 0; brightness<=255; brightness += 10)

     analogWrite (9, brightness);
     delay (50);
}

for (brightness = 255; brightness >=0; brightness-=10)
}

     analogWrite (9, brightness);
     delay(50);
}

}
```

CODE:

```
int
brightness=0;
            void setup()
```

2

```
{ pinMode(9, OUTPUT);
}
void loop()
{
  for (brightness =0;brightness <= 255; brightness +=10)
  {
    analogWrite(9, brightness);
    delay(50);
  }
  for (brightness = 255;brightness >=0; brightness -=10)
  {
    analogWrite(9, brightness);
    delay(50);
  }
}
```

OUTPUT/OBSERVATION:

LED is fading.