IOT LAB 5TH SEM

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Program no-03

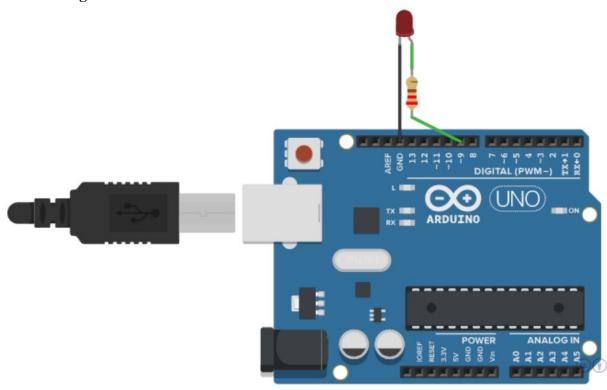
Program Title -FADING LED

Aim- to fade a led bulb on and off using arduino board

Hardware Required

- Arduino uno Board
- led bulb
- resistors(100 ohm)

Circuit Diagram



Code:

```
int brightness=0;
void setup(){
  pinMode(9,OUTPUT);
}

void loop() {
  for(brightness=0;brightness<=255;brightness+=5){
  analogWrite(9,brightness);
  delay(30); //wait 30ms
}

for(brightness=255;brightness>=0;brightness-=5){
  analogWrite(9,brightness);
  delay(30);
}
```

Observation /Output- the led bulb was faded on and off with a delay of 30ms