

(Analog Output) -(PWM Pins)

2*Connecting Led on Arduino :

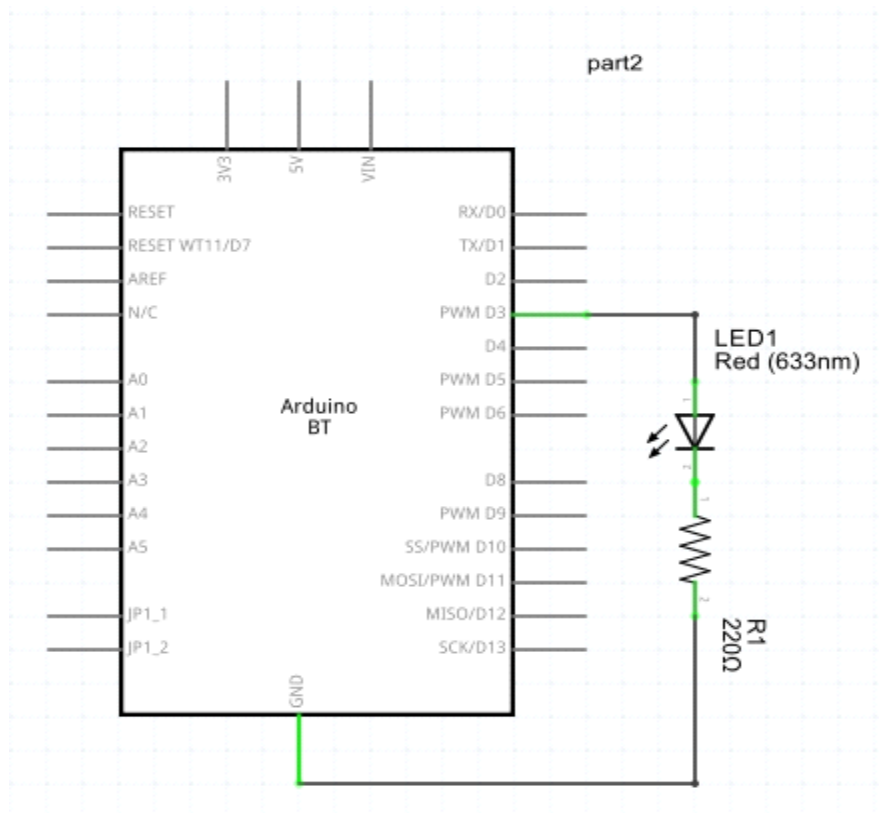
PWM Pins are special one that can get analog output . they devide the digital values (0,5) to 256 layers so , the can give values between 0 and 5 according to these 256 layers that starts from 0 to 255

the PWM pins are (3,5,6,9,10,11)

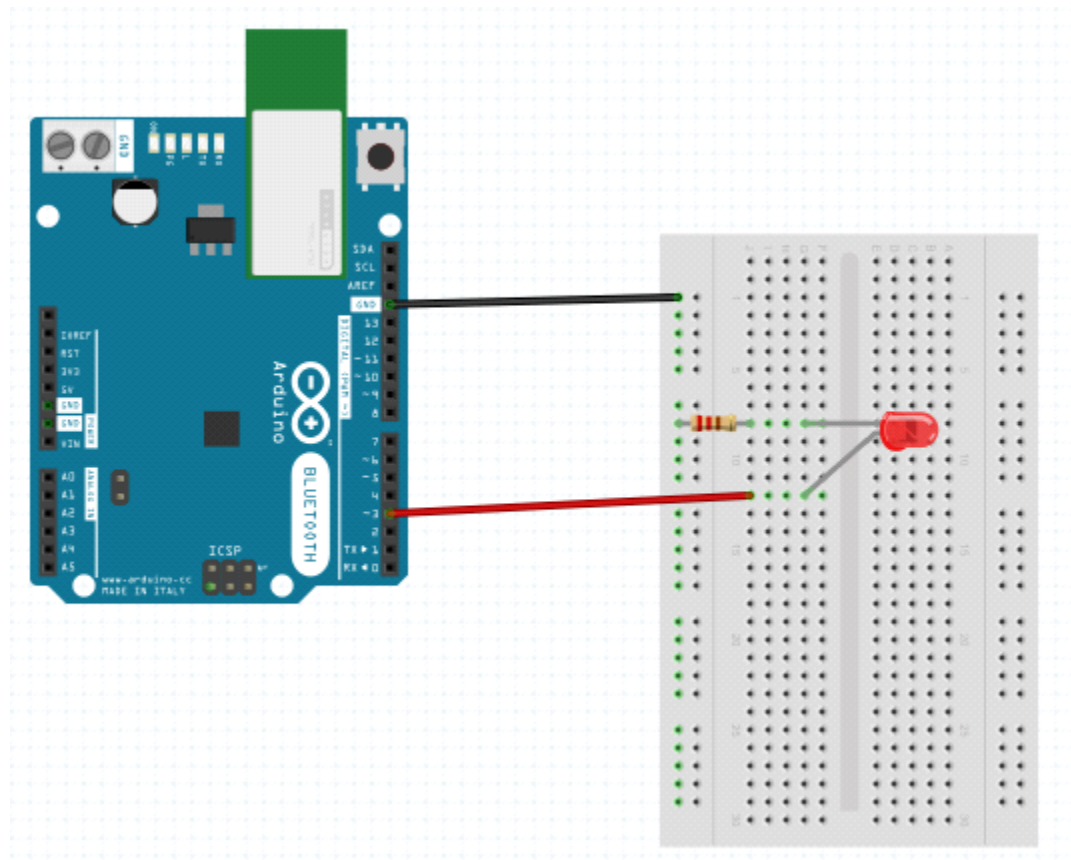
Algorithm:

the led brightness will be increased gradually til the maximum value and then be decreased till the minimum value

schematic :



ON Arduino :



the code :

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```
void setup ()
{
  pinMode (3,OUTPUT);
}
void loop()
{
  for(int i=0;i<256;i++)
  {
    analogWrite(3,i);
    delay(100);
  }
  delay(500);
  for(int i=255;i>-1;i--)
  {
    analogWrite(3,i);
    delay(100);
  }
  delay(500);
}
```

Done compiling.