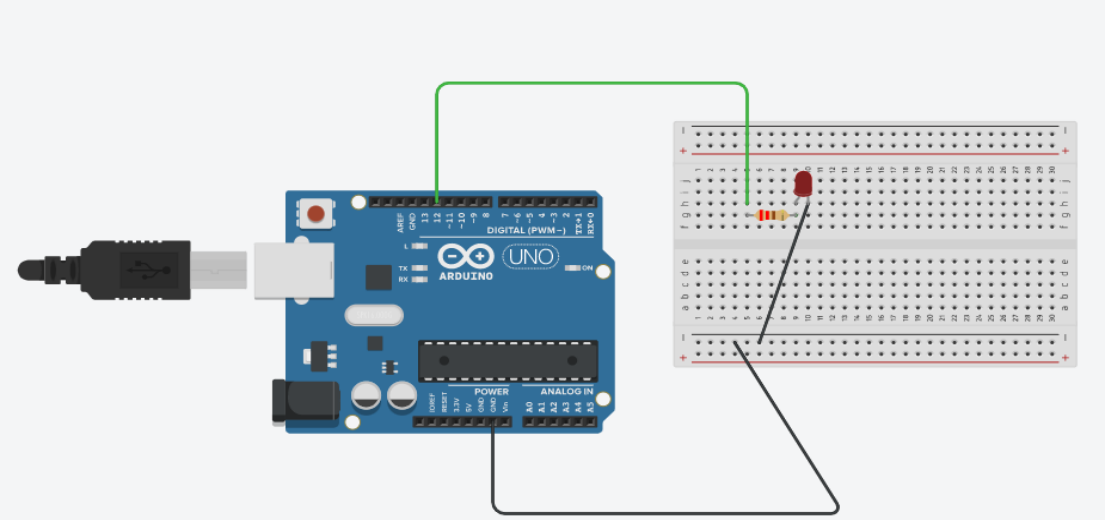
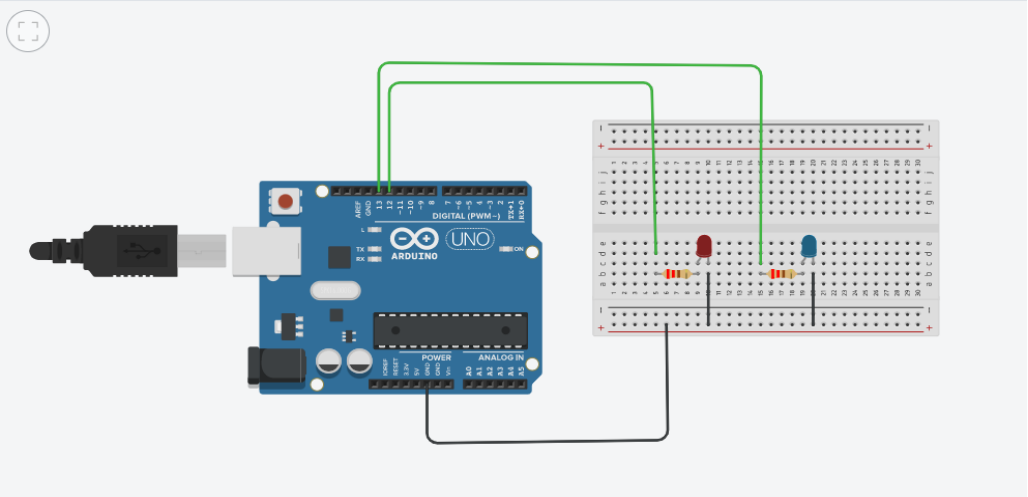
LED 1



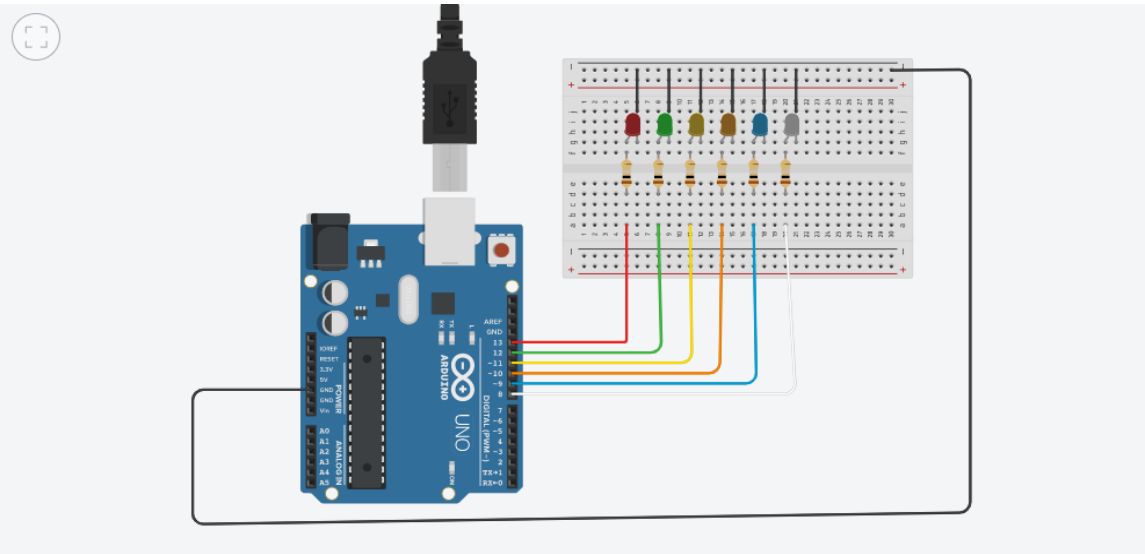

```
void setup()
{
  pinMode(12, OUTPUT);
}

void loop()
{
  digitalWrite(12, HIGH);
  delay(1000); // Wait for 1000 millisecond(s)
  digitalWrite(12, LOW);
  delay(1000); // Wait for 1000 millisecond(s)
}
```

LED 2




```
void setup()
{
pinMode(12, OUTPUT);
pinMode(13,OUTPUT);
}

void loop()
{
digitalWrite(12, HIGH);
digitalWrite(13, LOW);
delay(1000);

digitalWrite(13, HIGH);
digitalWrite(12, LOW);
delay(1000);
}
```

LED 3

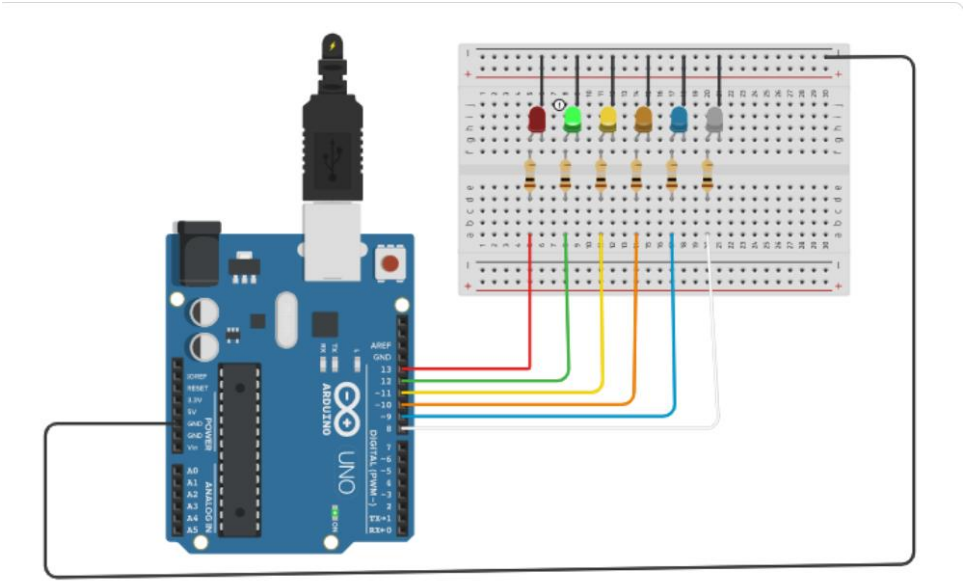


```
void setup()
{
  pinMode(8, OUTPUT);
  pinMode(9,OUTPUT);
   pinMode(10, OUTPUT);
  pinMode(11,OUTPUT);
   pinMode(12, OUTPUT);
  pinMode(13,OUTPUT);
}

void loop()
{
  digitalWrite(8, HIGH);
```

```
delay(100);

digitalWrite(8, LOW);
digitalWrite(9, HIGH);

delay(100);



digitalWrite(9, LOW);
digitalWrite(10, HIGH);



delay(100);

digitalWrite(10, LOW);
digitalWrite(11, HIGH);

delay(100);

digitalWrite(11, LOW);
digitalWrite(12, HIGH);

delay(100);
```

```
  digitalWrite(12, LOW);
  digitalWrite(13, HIGH);
  delay(100);
  digitalWrite(13,LOW);
}
```

LED 4

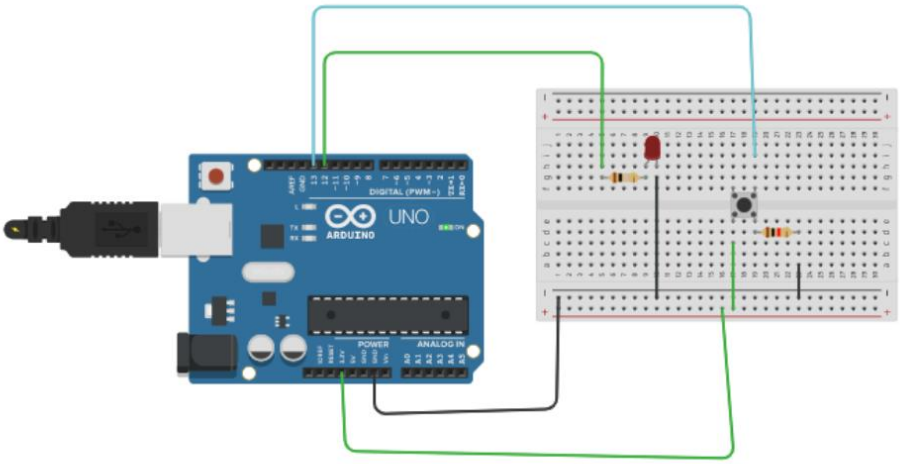


```
void setup()
{
  pinMode(8, OUTPUT);
  pinMode(9,OUTPUT);
   pinMode(10, OUTPUT);
```

```
  pinMode(11,OUTPUT);
   pinMode(12, OUTPUT);
  pinMode(13,OUTPUT);
}

void loop()
{
  digitalWrite(8, HIGH);

  delay(100);

  digitalWrite(8, LOW);
  digitalWrite(9, HIGH);

  delay(100);


  digitalWrite(9, LOW);
  digitalWrite(10, HIGH);

  delay(100);

  digitalWrite(10, LOW);
  digitalWrite(11, HIGH);

  delay(100);

  digitalWrite(11, LOW);
```

```
  digitalWrite(12, HIGH);

  delay(100);

  digitalWrite(12, LOW);
  digitalWrite(13, HIGH);
  delay(100);
  digitalWrite(13, LOW);
  digitalWrite(12, HIGH);
   delay(100);
   digitalWrite(11, HIGH);
  digitalWrite(12, LOW);
delay(100);
  digitalWrite(11, LOW);
  digitalWrite(10, HIGH);
  delay(100);
  digitalWrite(10, LOW);
   digitalWrite(9, HIGH);
  delay(100);
  digitalWrite(9, LOW);
   digitalWrite(8, HIGH);
   delay(100);
}
```

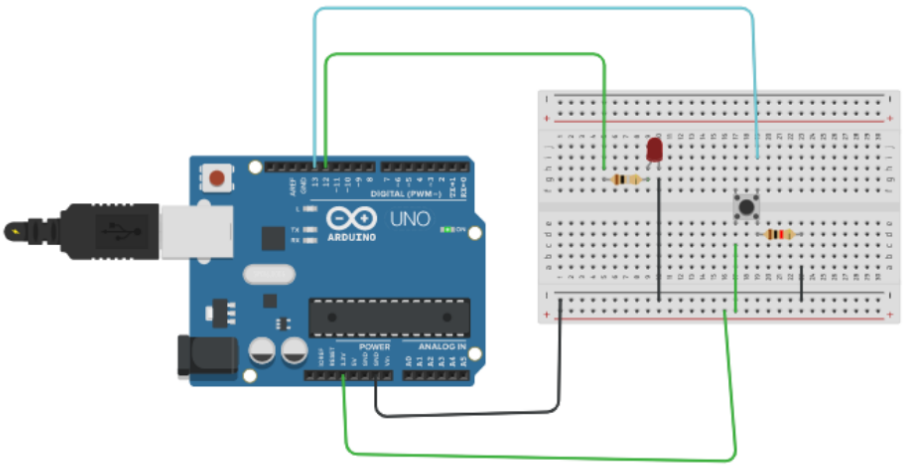
PUSH BUTTON




```
int led = 12;
int pushButton = 13;
void setup()
{
  Serial.begin(9600);
  pinMode(pushButton,INPUT);
  pinMode(led,OUTPUT);
}

void loop()
{
int buttonState = digitalRead(pushButton);
```

```
  Serial.println(buttonState);
  if(buttonState == HIGH){
    digitalWrite(led,HIGH);
  }
  else{
    digitalWrite(led,LOW);
  }
  delay(1);

}
```

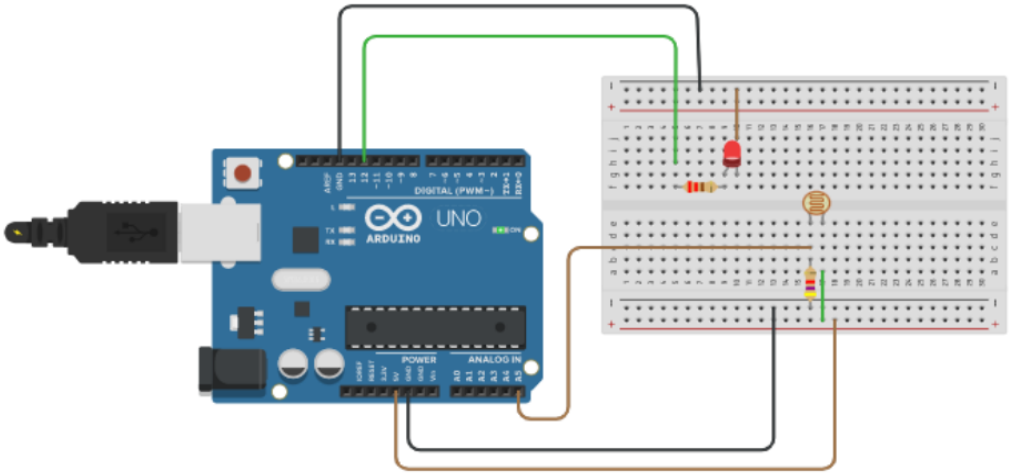
PUSH BUTTON 2



```
int LED = 12;
int pushButton = 13;
int stateLED = LOW;
int stateButton;
int previous = LOW;
long time = 0;
long debounce = 200;
void setup()
{

  pinMode(pushButton,INPUT);
  pinMode(LED,OUTPUT);
}

void loop()
{
  stateButton = digitalRead(pushButton);
  if(stateButton == HIGH && previous == LOW && millis()-time>debounce){
    if(stateLED == HIGH){
      stateLED = LOW;
  }
  else{
    stateLED = HIGH;
  }
  time = millis();
```

```
}
  digitalWrite(LED,stateLED);
  previous == stateButton;
}
```

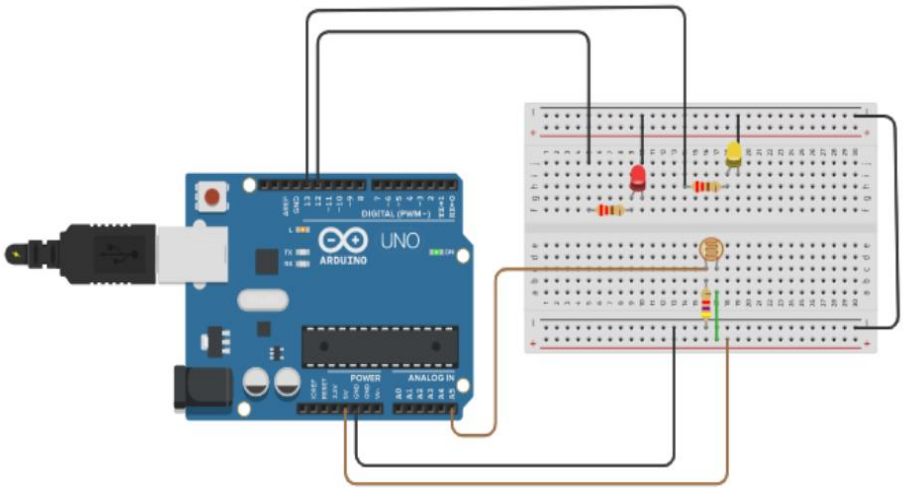
PHOTORESISTOR




```
int sensorValue = 0;
void setup()
{
  pinMode(A5,INPUT);
  Serial.begin(9600);
  pinMode(12,OUTPUT);
}
```

```
void loop()
{
  sensorValue = analogRead(A5);
  Serial.println(sensorValue);
  if(sensorValue>829)
    digitalWrite(12,LOW);
  else
    digitalWrite(12,HIGH);


}
```

PHOTORESISTOR 2



```
int sensorValue = 0;
void setup()
{
  pinMode(A5,INPUT);
  Serial.begin(9600);
  pinMode(12,OUTPUT);
  pinMode(13,OUTPUT);
}

void loop()
{
  sensorValue = analogRead(A5);
  Serial.println(sensorValue);
  if(sensorValue<852)
  {
    digitalWrite(12,HIGH);
    digitalWrite(13,HIGH);
  }
  else if(sensorValue<900)
  {
    digitalWrite(12,HIGH);
    digitalWrite(13,LOW);
  }
  else
  {
```

```
    digitalWrite(12,LOW);
    digitalWrite(13,LOW);

  }
}
```