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# INTERNET OF THINGS LAB ASSIGNMENT

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Course code: CSE-402

Submitted to:

Ayanava Paul

Lecturer, UIT



SUBMITTED BY:

MD. SHAKIBUL ISLAM RAMIM

ID: 2125051063

Batch: CSE-50

Section: 7B1

Email: 2125051063@uits.edu.bd

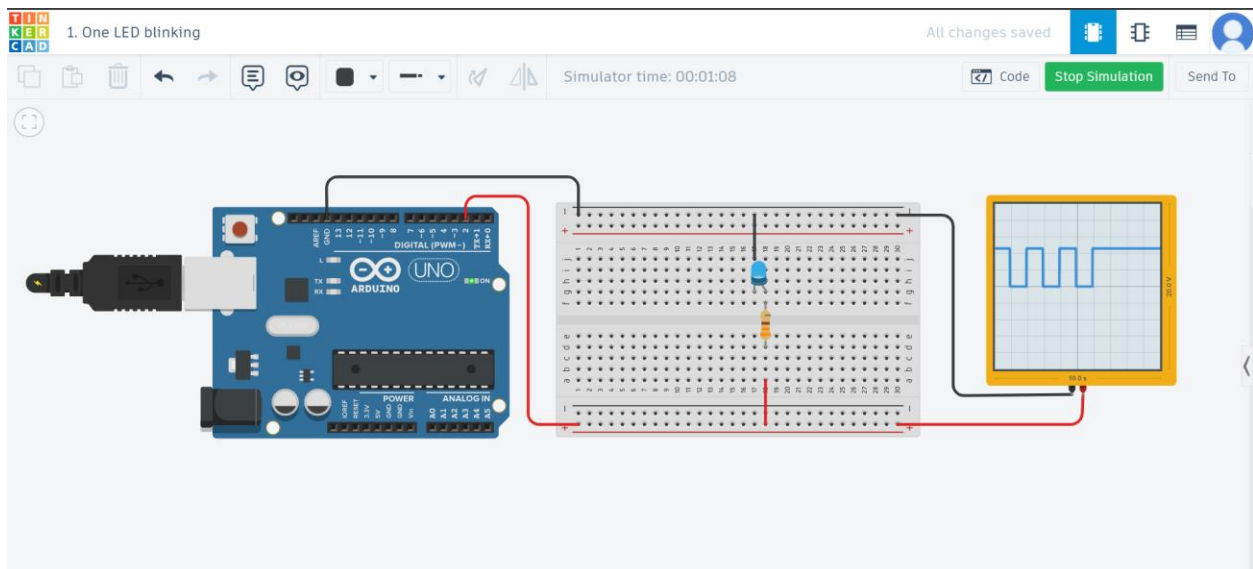
## 1. One LED blinking

Title: Blink one LED using a Arduino UNO R3

Necessary Equipment:

1. Arduino UNO R3
2. Breakboard
3. 330 Ohm resistor
4. One LED

Circuit Figure:



Code:

```
int pin = 2;

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

void loop()
{

```

```
digitalWrite(pin, HIGH);  
  
delay(1000); // Wait for 1000 millisecond(s)  
  
digitalWrite(pin, LOW);  
  
delay(1000); // Wait for 1000 millisecond(s)  
  
}
```

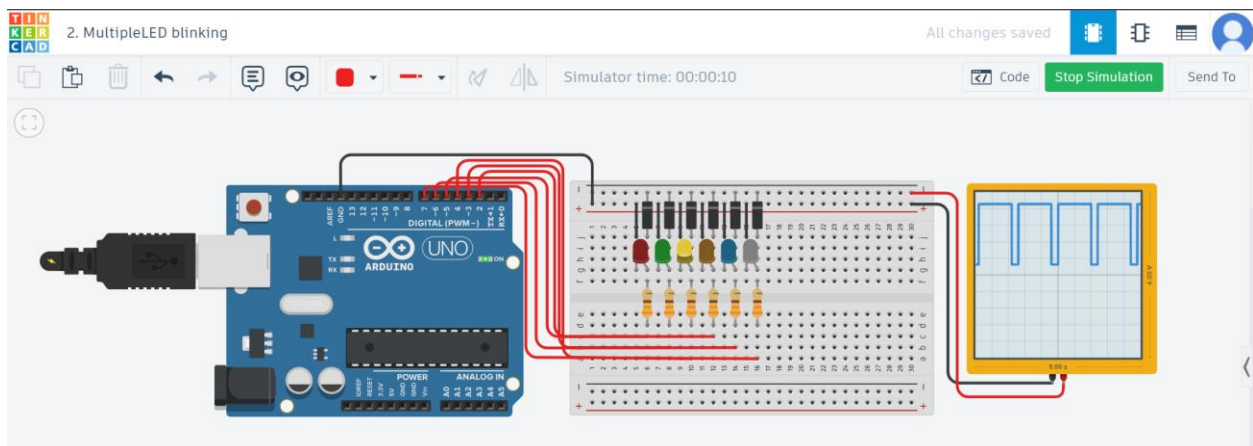
## 2. Multiple LED blinking

Title: Blink multiple LED using a Arduino UNO R3

Necessary Equipment:

1. Arduino UNO R3
2. Breakbord
3. 330 Ohm resistor
4. 6 LED

Circuit Figure:



Code:

```
int pin[] = {2,3,4,5,6,7};
```

```

int al = 6;

void setup()
{
  for(int i=0;i<al;i++){
    pinMode(pin[i], OUTPUT);
  }
}

void loop()
{
  for(int i = 0; i < al; i++){

    digitalWrite(pin[i], HIGH);
    delay(1000); // Wait for 1000 millisecond(s)
    digitalWrite(pin[i], LOW);
    delay(200); // Wait for 200 millisecond(s)
  }
}

```

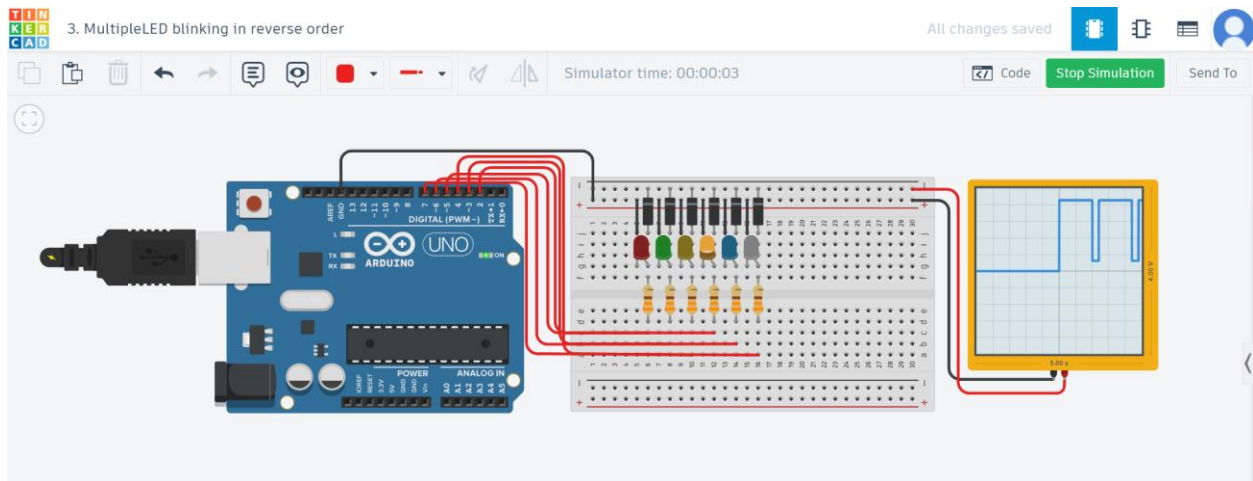
### 3. Multiple LED blinking in reverse order

Title: Blinking multiple LED in reverse order using a Arduino UNO R3

Necessary Equipment:

1. Arduino UNO R3
2. Breakbord
3. 330 Ohm resistor
4. 6 LED

## Circuit Figure:



## Code:

```
int pin[] = {2,3,4,5,6,7};
```

```
int al = 6;
```

```
void setup()
```

```
{
```

```
  for(int i=0;i<al;i++){
```

```
    pinMode(pin[i], OUTPUT);
```

```
  }
```

```
}
```

```
void loop()
```

```
{
```

```
  for(int i = al-1; i >= 0; i--){
```

```
    digitalWrite(pin[i], HIGH);
```

```
    delay(1000); // Wait for 1000 millisecond(s)
```

```
digitalWrite(pin[i], LOW);  
delay(200); // Wait for 200 millisecond(s)  
}  
}
```

*The End*