

Internet of things lab ASSIGNMENT

Course code: CSE-402

Submitted to:

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## One LED blinking

### Title: Blink one LED using a Arduino UNO R3

### Necessary Equipment:

1. Arduino UNO R3
2. Breakbord
3. 330 Ohom resistor
4. One LED

### Circuit Figure:

A computer screen shot of a circuit board

Description automatically generated

### 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)

}

## Multiple LED blinking

### Title: Blink multiple LED using a Arduino UNO R3

### Necessary Equipment:

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

### Circuit Figure:

A computer screen shot of a circuit board

Description automatically generated

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)

}

}

## 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 Ohom resistor
4. 6 LED

### Circuit Figure:

A computer screen shot of a circuit board

Description automatically generated

### 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