```
6<sup>th</sup>
a)
int LED=13;
void setup()
{
pinMode(LED, OUTPUT);
}
void loop(){
digitalWrite(LED, HIGH);
delay(1000); // Wait for 1000 millisecond(s)
digitalWrite(LED, LOW);
delay(1000); // Wait for 1000 millisecond(s)
}
b)
const int LED=8;
void setup()
{pinMode(LED, OUTPUT);}
void loop(){
for(int b=0;b<=255;b++){
 analogWrite(LED,b);
}
delay(1000);
for(int b=255;b>=0;b--){
 analogWrite(LED,b);
delay(1000);
}
```

## 7th

```
void setup() {
pinMode(A0, OUTPUT); pinMode(A1, OUTPUT); pinMode(A2, OUTPUT);
pinMode(A3, OUTPUT); pinMode(A4, OUTPUT); pinMode(A5, OUTPUT);
pinMode(2, OUTPUT); pinMode(3, OUTPUT); pinMode(4, OUTPUT);
Serial.begin(9600);
}
void loop() {
digitalWrite(A0, HIGH); digitalWrite(A1, LOW); digitalWrite(A2, LOW);
digitalWrite(A3, LOW); digitalWrite(A4, HIGH); digitalWrite(A5, LOW);
digitalWrite(2, LOW); digitalWrite(3, LOW); digitalWrite(4, HIGH);
Serial.println("Junction 1: STOP, Junction 2: READY, Junction 3: GO");
delay(5000);
digitalWrite(A0, LOW); digitalWrite(A1, HIGH); digitalWrite(A2, LOW);
digitalWrite(A3, LOW); digitalWrite(A4, LOW); digitalWrite(A5, HIGH);
digitalWrite(2, HIGH); digitalWrite(3, LOW); digitalWrite(4, LOW);
Serial.println("Junction 1: READY, Junction 2: GO, Junction 3: STOP");
delay(5000);
digitalWrite(A0, LOW);
digitalWrite(A1, LOW);
digitalWrite(A2, HIGH);
digitalWrite(A3, HIGH);
digitalWrite(A4, LOW);
digitalWrite(A5, LOW);
digitalWrite(2, LOW);
digitalWrite(3, HIGH);
digitalWrite(4, LOW);
Serial.println("Junction 1: GO, Junction 2: STOP, Junction 3: READY");
delay(5000);
}
8<sup>th</sup>
```

```
Sender
char mystr[10] = "Nithin";
void setup() {
Serial.begin(9600);
}
void loop() {
Serial.write(mystr,6);
delay(1000);
}
Receiver
#include <LiquidCrystal.h>
char mystr[10];
LiquidCrystal lcd_1(12, 11, 5, 4, 3, 2);
void setup()
{
lcd_1.begin(16, 2); Serial.begin(9600);
}
void loop()
{
 Serial.readBytes(mystr, 6);
lcd_1.print(mystr);
delay(5000);
lcd_1.clear();
}
```

```
11<sup>th</sup>
Light control
// C++ code
//
int led=7;
int read=A3;
void setup()
{
 pinMode(led, OUTPUT);
 pinMode(read,INPUT);
}
void loop()
{
 if(analogRead(read)>500)
  digitalWrite(led,0);
 else
  digitalWrite(led,1);
}
```

```
11<sup>th</sup>
Fan control
// C++ code
//
int motor=7;
int read=A3;
void setup()
{
 pinMode(motor, OUTPUT);
 pinMode(read,INPUT);
}
void loop()
{
 if(analogRead(read)<170)</pre>
  digitalWrite(motor,0);
 else
  digitalWrite(motor,1);
}
```