

## Exp 9

### 1

```
// C++ code
//
#include <Wire.h>
int analogIN=0;
int msg=0;
void setup()
{
  pinMode(A0, INPUT);
  Wire.begin();
  Serial.begin(9600);
  Serial.print("Welcome to I2C Demo. I am Arduino 1");
}

void loop()
{
  analogIN=analogRead(A0);
  msg=map(analogIN,0,1023,0,255);

  Wire.beginTransmission(9);
  Wire.write(msg);
  Wire.endTransmission();

  Serial.println(msg);
  delay(500);
}
```

### 2

```
#include <Wire.h>
int LED=13;
int x=0;
void setup()
{
  pinMode(LED, OUTPUT);
  Serial.begin(9600);
  Wire.begin(9);
  Wire.onReceive(receiveEvent);
}

void receiveEvent(int bytes)
{
  x=Wire.read();
  Serial.println(x);
}

void loop()
```

```
{
  digitalWrite(LED, HIGH);
  delay(200); // Wait for 1000 millisecond(s)
  digitalWrite(LED, LOW);
  delay(200); // Wait for 1000 millisecond(s)
}
```

