Assignment-1
Smart Home Automation

Assignment Date	9 September 2022
Student Name	Ms.Pradeepa
Student Roll Number	422119106006
Maximum Marks	2 Marks

Question:

Smart home automation.

Title:

Motion detection using PIR sensor

Solution:	
| | ```cpp
// C++ code
//
void setup()
{
  pinMode(12, OUTPUT);
  pinMode(4,INPUT);
  pinMode(7, OUTPUT);
  Serial.begin(9600);
}

void loop()
{
  int p = digitalRead(4);
  Serial.print(p);
  Serial.print("\n");

  if(p){
    Serial.print("Motion Detected !!! \n");
    tone(12,(p*2000));
    digitalWrite(7, HIGH);
    delay(1000);
  }
  else{
``` |

```
    noTone(12);
    digitalWrite(7, LOW);
    delay(1000);
  }
}
```

Circuit: