SMART HOME
(AUTOMATIC DOOR OPENER)

SOURCE CODE:

```
#define PIR_sensor 14
#define m11 0
#define m12 1void setup()
{
 lcd.begin(16, 2);
 pinMode(m11, OUTPUT);
 pinMode(m12, OUTPUT);
 pinMode(PIR_sensor, INPUT);
 lcd.print("  Automatic   ");
 lcd.setCursor(0,1);
 lcd.print("  Door Opener  ");
 delay(3000);
 lcd.clear();
 lcd.print("Python for fun");
 delay(2000);
}void loop()
{
 if(digitalRead(PIR_sensor))
 {
  lcd.setCursor(0,0);
  lcd.print("Movement Detected");
  lcd.setCursor(0, 1);
  lcd.print("   Gate Opened    ");
  digitalWrite(m11, HIGH);      // gate opening
  digitalWrite(m12, LOW);
  delay(1000);
  digitalWrite(m11, LOW);         // gate stop for a while
  digitalWrite(m12, LOW);

  delay(1000);
  lcd.clear();
  lcd.print("  Gate Closed    ");
  digitalWrite(m11, LOW);         // gate closing
  digitalWrite(m12, HIGH);
  delay(1000);
  digitalWrite(m11, LOW);          // gate closed
  digitalWrite(m12, LOW);
  delay(1000);
 }
```

```
 else
 {
  lcd.setCursor(0,0);
  lcd.print(" No Movement  ");
  lcd.setCursor(0,1);
  lcd.print(" Gate Closed  ");
  digitalWrite(m11, LOW);
  digitalWrite(m12, LOW);
 }
}
```