System start

mainMenuVariable = HIGH

**Match = false**

Twice

analogWrite(red, 255);

    delay(100);

    analogWrite(red, 0);

    delay(100);

**Match = true**

For 2 seconds

analogWrite(bolt, 255);

analogWrite(green, 255);

Eeprom

Password = inputPassword

      analogWrite(green, 255);

      delay(1000);

      analogWrite(green, 0);

**Password entered**

Key \* is pressed

newPassoword break;

analogWrite(red, 0);

**No number key pressed and then**

Key \* is pressed

If ((mainMenuVariable == LOW) && (numberTyped || insideNewPasswordMenu))

**true**

**Match = false**

**Match = true**

newPassword void

**FALSE**

Match = false

**TRUE**

Match = true

if (insideNewPasswordMenu)

~~if (insideNewPasswordMenu)~~

**With or without number key pressed**

Key \* is pressed

**Password entered**

if (inputPassword[i]

== password[i])

Confirmation void

(Entered password captation)

Confirmation void = break;

**FALSE**

Match = false

**Password entered**

if (inputPassword[i] == password[i])

openClose();

void loop()

if (mainMenuVariable == LOW)

“new password menu”

analogWrite(red, 255);

insideNewPasswordMenu = true;

mainMenuVariable = LOW

Leaving Confirmation menú

**TRUE**

Match = true

Confirmation void = break;

**Number key pressed and then**

Key \* is pressed

**Match = false**

Twice

openClose();

    analogWrite(red, 255);

    delay(100);

    analogWrite(red, 0);

    delay(100);

void loop()

~~if (mainMenuVariable == LOW)~~

else

Confirmation void

(Input password captation)