

On the other hand, if we press the asterisk button, we will check whether the currently entered password is the same as the originally set password. If that's true the alarm will be deactivated, the buzzer will stop producing sound and we will get back to the home screen. But if we entered password was wrong the message "Wrong! Try Again!" will appear and we will have to try to enter the correct password again.

For changing the password we use a similar method. Here first we need to enter the current password in order to be able to set a new password.

```
1. else if (keypressed == 'B') {
2.   lcd.clear();
3.   int i=1;
4.   tone(buzzer, 2000, 100);
5.   tempPassword = "";
6.   lcd.setCursor(0,0);
7.   lcd.print("Current Password");
8.   lcd.setCursor(0,1);
9.   lcd.print(">");
10.  passChangeMode = true;
11.  passChanged = true;
12.  while(passChanged) {
13.    keypressed = myKeypad.getKey();
14.    if (keypressed != NO_KEY){
15.      if (keypressed == '0' || keypressed == '1' || keypressed == '2' || keypressed == '3' ||
16.        keypressed == '4' || keypressed == '5' || keypressed == '6' || keypressed == '7' ||
17.        keypressed == '8' || keypressed == '9') {
18.        tempPassword += keypressed;
19.        lcd.setCursor(i,1);
20.        lcd.print("*");
21.        i++;
22.        tone(buzzer, 2000, 100);
23.      }
24.    }
25.    if (i > 5 || keypressed == '#') {
26.      tempPassword = "";
27.      i=1;
28.      lcd.clear();
29.      lcd.setCursor(0,0);
30.      lcd.print("Current Password");
31.      lcd.setCursor(0,1);
32.      lcd.print(">");
33.    }
34.    if (keypressed == '*') {
35.      i=1;
36.      tone(buzzer, 2000, 100);
37.      if (password == tempPassword) {
38.        tempPassword="";
39.        lcd.clear();
40.        lcd.setCursor(0,0);
41.        lcd.print("Set New Password");
42.        lcd.setCursor(0,1);
43.        lcd.print(">");
```

```
44. while(passChangeMode) {
45.   keypressed = myKeypad.getKey();
46.   if (keypressed != NO_KEY){
47.     if (keypressed == '0' || keypressed == '1' || keypressed == '2' || keypressed == '3' ||
48.     keypressed == '4' || keypressed == '5' || keypressed == '6' || keypressed == '7' ||
49.     keypressed == '8' || keypressed == '9') {
50.       tempPassword += keypressed;
51.       lcd.setCursor(i,1);
52.       lcd.print("*");
53.       i++;
54.       tone(buzzer, 2000, 100);
55.     }
56.   }
57.   if (i > 5 || keypressed == '#') {
58.     tempPassword = "";
59.     i=1;
60.     tone(buzzer, 2000, 100);
61.     lcd.clear();
62.     lcd.setCursor(0,0);
63.     lcd.print("Set New Password");
64.     lcd.setCursor(0,1);
65.     lcd.print(">");
66.   }
67.   if ( keypressed == '*') {
68.     i=1;
69.     tone(buzzer, 2000, 100);
70.     password = tempPassword;
71.     passChangeMode = false;
72.     passChanged = false;
73.     screenOffMsg = 0;
74.   }
75. }
76. }
77. }
78. }
79. }
```