So the next step is that the ultrasonic sensor will constantly check whether the currently measured distance is smaller than the initial distance, corrected by a value of 10 cms, and if that's true it means an object has appeared in front of the sensor and the alarm will be activated. The tune() function will activate the buzzer and the enterPassword() custom function will be called.

```
1.  if (alarmActivated == true){
2.  currentDistance = getDistance() + 10;
3.  if ( currentDistance < initialDistance) {
4.  tone(buzzer, 1000); // Send 1KHz sound signal
5.  lcd.clear();
6.  enterPassword();
7.  }
8.  }
```