In that case on the LCD we will print the message “Alarm will be activated in”, and using a while loop we will make a countdown of 9 seconds before the alarm is activated. Then the message “Alarm Activated” will appear and we will measure the initial distance from our alarm device to the objects opposite of it.

```
if (activateAlarm) {
lcd.clear();
lcd.setCursor(0,0);
lcd.print("Alarm will be");
lcd.setCursor(0,1);
lcd.print("activated in");

int countdown = 9; // 9 seconds count down before activating the alarm
while (countdown != 0) {
lcd.setCursor(13,1);
lcd.print(countdown);
countdown--;
tone(buzzer, 700, 100);
delay(1000);
}
lcd.clear();
lcd.setCursor(0,0);
lcd.print("Alarm Activated!");
initialDistance = getDistance();
activateAlarm = false;
alarmActivated = true;
}
```