**The robot is assumed to have the following characteristics:**

* Recognize human faces in real-time in indoor environments
* The ability to detect human's positions
* The ability to move left/right forward/backward
* The ability to move its head, where the face recognition sensors, and can rotate 360 degrees (or maybe the sensors could be placed in all directions without moving).
* The ability to convert written text into human-like natural voice in Arabic and/or English

**How it works:**

* If one person has been detected (or no change in the environment), no need to make any action but the robot is alert for any change (ALERT STATE)
* If more than one person has been detected,
  + measure the distance between the first two people by setting person A at 0 ft and measure its distance to person B
    - If between the two people is at least 6 ft, set the second person to be person A and set its position at 0 ft and measure its distance to the person B, which is the third person
    - If less than 6 ft between two people has been detected, the robot should go to person A and say, “please keep at least 6 feet apart, thank you!” or  
      "الرجاء الحفاظ على مسافة ٦ اقدام، شكرا جزيلا!" or both
    - If between the two people is at least 6 ft, no action (ALERT STATE)