**1. You should have several functions. You have the one if the robot is at a wall, but you should have a function for walking to a wall, turning around, walking back to the chair, and sitting down. These only require a 3-4 lines each.**

**2. Make sure to include the word "stop" if a function results in the robot sitting back down.**

Algorithm:

Start:

 totalNoSteps = 0

 stand up

 wallFound =False

 while(!wallFound):

 if (it senses a wall))

 step forward

 turn around 90 degree

 walk back to the chair

 sit down in its original starting position

 wallFound =TRUE

 else:

 raise arms

 lower arms

 totalNoSteps = totalNoSteps + 1

 Print "Total number of steps taken: "+totalNoSteps

END of Program

Pseudo Code:

Declare noSteps As Integer

Declare wallFound As Boolean

stand up

While(wallFound):

 if (robot senses a wall))

 step forward

 turn around 90 degree

 walk back to the chair

 sit

 wallFound =TRUE

 else:

 step forward

 totalNoSteps = totalNoSteps + 1

 raise arms

 lower arms

END OF WHILE

Output "Number of Steps are Taken: "+noSteps