**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