**Assignment 1:  Due January 27th, 6:00 pm**

• **Write a java program that helps** **model a remote controlled robot:**

• The robot moves in an 8 by 8 meter  grid

• Each grid cell has a ‘cost’ to traverse, which ranges from 1 (low) to 9 (high)

• The robot  is charged whenever it enters a new cell

• **Use** **a loop to accept keyboard command input**

• **Use a switch statement to provide** **for** **input options (commands)** **:**

1) Allow input of a target cell X,Y location

2) Determine path options, and calculate the cost incurred along the way (print options for the user)

3) Drive to the new location by selecting a path option

4) Print a history of the last three trips taken, and the cost of each

5) Quit – Allow the user to exit from the program

• **Please** **comment your code, and think about making your code simple and easy to** **write**

• **Submit your source code to Blackboard. Please fill in your name and NUID** **number.**

作业1:1月27日下午6:00

•编写一个java程序，帮助对遥控机器人建模:

•机器人在8×8米的网格内移动

•每个网格单元都有一个遍历的“成本”，范围从1（低）到9（高）

•每当机器人进入新的电池时，它就会被充电

•使用循环接受键盘命令输入

•使用switch语句提供输入选项（命令）:

1）允许输入目标单元X，Y位置

2）确定路径选项，并计算沿途发生的成本（为用户打印选项）

3）通过选择路径选项驱动到新位置

4）打印最近三次旅行的历史记录，以及每次旅行的费用

5）退出-允许用户退出程序

•请注释您的代码，并考虑让您的代码简单易写

•将源代码提交到Blackboard。 请填写您的姓名和身份证号码。