

AI Lab 1

Simple Reflex Agent

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Code

```
preception = ["A","B","C","D"]
state = ["Clean", "Dirty", "Wet", "Clean"]
rule = ["Cleaned","Cleaned","Dryied","Cleaned"]
def GetState(c):
    for i in preception:
        if state[c] == "Clean":
            print("Room ", preception[c], " Already clean moving to next room")
            c += 1
            return GetState(c)
        else:
            print("the floor is ",state[c])
            print("Cleaning room", preception[c])
            return c
def GetRule(cs):
    if cs < 5:
        for i in range(cs,5):
            print(rule[i])
            print("moving to next room")
            return GetRule(GetState(cs+1))
    else:
        return "Everything is cleaned"
def SimpleReflexAgent(c):
    return GetRule(GetState(c))
print("Menu")
print("0: A 1:B 2:C 3:D")
print(SimpleReflexAgent(int(input("Input a number"))))
```

Output

```
Menu
0: A 1:B 2:C 3:D
Input a number0
Room A Already clean moving to next room
the floor is Dirty
Cleaning room B
Cleaned
moving to next room
the floor is Wet
Cleaning room C
Dryied
moving to next room
Room D Already clean moving to next room
```