# Vacuum Cleaner agent:

```
function vacuum_world():
    Initialize goal_state = {'A':'0','B':'0'}
    Initialize cost = 0

    location = input("Enter Vacuum Location (A/B):")
    status_current = input("Enter status of " +
                    location + "(0: clean, 1: Dirty):")
    status_other = input("Enter status of the
            other room (0: clean, 1: Dirty):")

if status_current == '1':
    goal_state[location] = '0'
    cost += 1
    print("Cleaned" + location + ", Cost:" + str(cost)

if status_other == '1':
    print("Moving to the other room")
    cost += 1
    other_location = 'B' if location == 'A' else 'A'
    goal_state[other_location] = '0'
    cost += 1
    print("Cleaned" + other_location + ", Cost:"
                                + str(cost))

print("Goal state:" + str(goal_state))
print("Total cost:" + str(cost))
```

Output :

Enter location of Vacuum : 2
Enter status of 2 (0 for Clean, 1 for Dirty) : 0
Enter status of the other room : 1
Initial location Condition : {'A' : '0', 'B' : '0'}
Vacuum is placed in location B.
Location B is already clean.
Location A is Dirty.
Moving left to Location A.
cost for moving left : 1
cost for suck : 2
Location A has been Cleaned.
Goal State :
{'A' : '0', 'B' : '0'}
Performance Measurement : 2.

State flow :