```
vacuum_world():
goal_state = {'A': '0', 'B': '0'}
cost = 0
location_input = input('Enter location of print(') status_input = input('Enter status of print(') status_input_complement = input('Enter status of print(')) orint(')
                                                                location_input == 'A':
    print( Vacuus is in Location A.')
    print(')
    if status_input == '1':
        print( Location A is Dirty.')
    print( ')
    print( 'Action: Suck dirt')
    print( 'Action: Suck dirt')
    goal_state[ A'] = '8'
    cost += '
    print( 'Cost') + str(cost))
    print( 'Location A is cleaned.
    print( 'Dirtication A is cleaned.
    print( 
                                                                                                                                                                                                                                                                           status_input_complement == 'l':
print('Location B is Dirty.')
print('Action: Move Right to Loc
print('Action: Move Right to Loc
print(')
cost += |
print('Cost: ' + str(cost))
print(')
tus_input == '0';
                                                                                                                                                                                                                                                                           print(")

tus.input == '0':
ini("Location A is already clean.
ini(")

status.input.complement == '1':
print("Location B is Dirty.")
print(")
print("Action: Move Right to Lo
print(")
cost == 1
print("Cost: " + str(cost))
print("Action: Suck dirt")
print("Cost: " + str(cost))
print("Action: Suck dirt")
print("Cost: " + str(cost))
                                                                                                                                                                                          nt('Vacuum is in Location b.')
it(')
status.input == 'l':
print('scation B is Dirty.')
print(')
print('Action: Suck dirt')
print(')
goal_state['B'] = '0'
cost = 1
print('ost: ' + str(cost))
print('Ost: ' + str(cost))
print(')
print(')
print(')
print(')
print(')

                                                                                                                                                                                                                                                                                   int(')
status_input_complement == ']':
print('Location A is Dirty.')
print('Action: Move Left to Location
print('Action: Move Left to Location
print(')
cost *= 1
print('Cost: ' + str(cost))
print(')
print(')
goal_state['A'] = '0'
cost *= 1
print('Cost: ' + str(cost))
print(')
print('Cost: ' + str(cost))
print(')
                                                                                                                                                                                                                                                                                                                                                                                                                             ("Location" n
("")
("No action")
t("")
                                                                                                                                                                                                                                                                                   us.input == 0 :
nrt( location B is already clean."
nrt( )
nrt( )
print( location A is Dirty.")
print( location A is Dirty.")
print( Action: Hove Left to Loca
print(")
cost == 1
print("Cost: " + str(cost))
print("Action: Suck dirt")
print("Action: Suck dirt")
print("Action: Suck dirt")
print("Action: Suck dirt")
print("Cost: " + str(cost))
print("Cost: " + str(cost))
print("Cost: " + str(cost))
print("Cost: " + str(cost))
print("Location A is cleaned.")
print("Location A is already Cle
```

## × Terminal

```
Enter location of Vacuum (A or B): A
```

Enter status of A (0 ->clean and 1 ->dirty): 0

Enter status of other room (0 ->clean and 1 ->dirty): 1

Vacuum is in Location A.

Location A is already clean.

Location B is Dirty.

Action: Move Right to Location B

Cost: 1

Action: Suck dirt

Cost: 2

Location B is cleaned.

Performance measurement: 2

GOAL STATE: {'A': '0', 'B': '0'}

Process finished.