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# Simple Vacuum Cleaner Program

# Rooms state: 'A' and 'B' can be 'Dirty' or 'Clean'
rooms = {'A': 'Dirty', 'B': 'Dirty'}

# Vacuum cleaner starts in room 'A'
location = 'A'

while 'Dirty' in rooms.values():
    print("Vacuum is in room {}".format(location))
    if rooms[location] == 'Dirty':
        rooms[location] = 'Clean'
        print("Cleaning room {}".format(location))
    else:
        # Move to the other room
        location = 'B' if location == 'A' else 'A'
        print("Moving to room {}".format(location))

print("All rooms are clean!")
```

File Edit Shell Debug Options Windows Help

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Python 2.7.6 (default, Nov 10 2013, 19:24:24) [MSC v.1500 64 bit (AMD64)] on win32  
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>>> ===== RESTART =====

>>>

Vacuum is in room A

Cleaning room A

Vacuum is in room A

Moving to room B

Vacuum is in room B

Cleaning room B

All rooms are clean!

>>> |