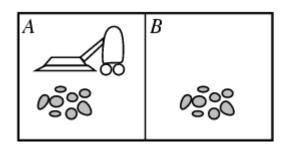
## For Lab-3 session:

Extend your LAB-2 by making autonomous cleaner so that it decides itself to clean, move to etc.

So, Write a python code that does not receive the command from user but autonomously clean the environment and stop. Your program has the method randomGenState() to generate random state and the method run() to run the entire program.



## **Example of running**

```
random generation
>>> A,B,Agent=randomGenState()
>>> A, B
(1,1)
# 1 stands for the location is dirty , 0 means
clean
>>> Agent
\A'
# Agent is at the location A or B
>>> run()
Agent starts
State (1,1,A)
it cleans A
it goes right
it cleans B
it stops
State (0,0,B)
```

## #Another example of running

```
# a random process gives A and B
>>> A,B,Agent = randomGenState()
>>> A,B
(1,0)
>>> Agent
'B'
# Agent is at the location B

>>> run()
Agent starts
State(1,0,B)
it goes left
it cleans A
it stops
State(0,0,A)
```

## Extend your model work with 2x2 grid as follow:

| А | В |
|---|---|
| С | D |