

# Output 1

```
IPython console
Console 3/A x
In [2]: runfile('C:/Users/Naman/.spyder-py3/Lab - 5_VacuumCleaner.py', wdir='C:/Users/Naman/.spyder-py3')
Enter the values of:

N = 4

M = 5
<0> 0 1 1 0
1 1 0 0 0
1 1 1 0 1
0 0 1 0 0
Already clean....moving ahead
0 <0> 1 1 0
1 1 0 0 0
1 1 1 0 1
0 0 1 0 0
Already clean....moving ahead
0 0 <1> 1 0
1 1 0 0 0
1 1 1 0 1
0 0 1 0 0
Percepting Dirt....Cleaning....moving ahead
0 0 0 <1> 0
1 1 0 0 0
1 1 1 0 1
0 0 1 0 0
Percepting Dirt....Cleaning....moving ahead
0 0 0 0 <0>
1 1 0 0 0
1 1 1 0 1
0 0 1 0 0
Already clean....moving ahead
0 0 0 0 0
1 1 0 0 <0>
1 1 1 0 1
0 0 1 0 0
Already clean....moving ahead
0 0 0 0 0
1 1 <0> 0 0
1 1 1 0 1
0 0 1 0 0
Already clean....moving ahead
0 0 0 0 0
```

Already clean....moving ahead

0	0	0	0	0
1	<1>	0	0	0
1	1	1	0	1
0	0	1	0	0

Percepting Dirt....Cleaning....moving ahead

0	0	0	0	0
<1>	0	0	0	0
1	1	1	0	1
0	0	1	0	0

Percepting Dirt....Cleaning....moving ahead

0	0	0	0	0
0	0	0	0	0
<1>	1	1	0	1
0	0	1	0	0

Percepting Dirt....Cleaning....moving ahead

0	0	0	0	0
0	0	0	0	0
0	<1>	1	0	1
0	0	1	0	0

Percepting Dirt....Cleaning....moving ahead

0	0	0	0	0
0	0	0	0	0
0	0	<1>	0	1
0	0	1	0	0

Percepting Dirt....Cleaning....moving ahead

0	0	0	0	0
0	0	0	0	0
0	0	0	<0>	1
0	0	1	0	0

Already clean....moving ahead

0	0	0	0	0
0	0	0	0	0
0	0	0	0	<1>
0	0	1	0	0

Percepting Dirt....Cleaning....moving ahead

0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	1	0	<0>

Already clean....moving ahead

0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	1	<0>	0

Already clean....moving ahead

Already clean....moving ahead

0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	1	<0>	0

Already clean....moving ahead

0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	<1>	0	0

Percepting Dirt....Cleaning....moving ahead

0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	<0>	0	0	0

Already clean....moving ahead

0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
<0>	0	0	0	0

Already clean....moving ahead

0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

Everything Cleaned

In [3]:

## Output 2

```
IPython console
Console 3/A x
In [3]: runfile('C:/Users/Naman/.spyder-py3/
Lab - 5_VacuumCleaner.py', wdir='C:/Users/
Naman/.spyder-py3')
Enter the values of:

N = 3

M = 4
<0>  0  0  0
  0  0  1  0
  1  1  0  0
Already clean....moving ahead
  0  <0>  0  0
  0  0  1  0
  1  1  0  0
Already clean....moving ahead
  0  0  <0>  0
  0  0  1  0
  1  1  0  0
Already clean....moving ahead
  0  0  0  <0>
  0  0  1  0
  1  1  0  0
Already clean....moving ahead
  0  0  0  0
  0  0  1  <0>
  1  1  0  0
Already clean....moving ahead
  0  0  0  0
  0  0  <1>  0
  1  1  0  0
Percepting Dirt....Cleaning....moving ahead
  0  0  0  0
  0  <0>  0  0
  1  1  0  0
Already clean....moving ahead
  0  0  0  0
<0>  0  0  0
  1  1  0  0
Already clean....moving ahead
  0  0  0  0
  0  0  0  0
<1>  1  0  0
Percepting Dirt....Cleaning....moving ahead
  0  0  0  0
  0  0  0  0
  0  <1>  0  0
Percepting Dirt....Cleaning....moving ahead
  0  0  0  0
```

Percepting Dirt....Cleaning....moving ahead

0 0 0 0

0 0 0 0

0 0 <0> 0

Already clean....moving ahead

0 0 0 0

0 0 0 0

0 0 0 <0>

Already clean....moving ahead

0 0 0 0

0 0 0 0

0 0 0 0

Everything Cleaned

In [4]: