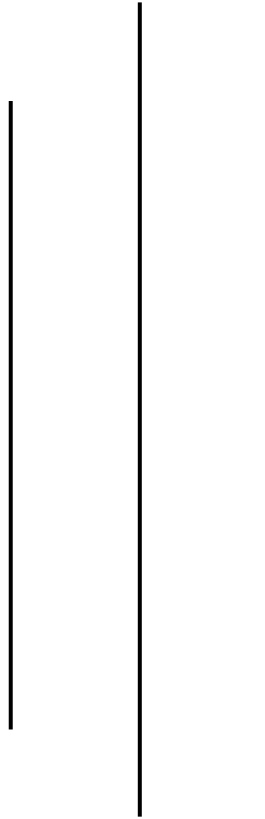


ASSIGNMENT-II

Programming Assignment: Simulate your Intelligence!



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1. Code

In this code I am assuming that [/] as a **vacuum cleaner** and [____] is **clean room** and [_..._] is **dirt in room**.

```
2. # This is assignment 2 of AI ML Course
3. import time
4.
5. def main():
6.     DIRT = [True, True]
7.     VACUUM = [True, False]
8.     my_ai_agent(DIRT, VACUUM)
9.
10. def my_ai_agent(D, V):
11.     while D[0]==True or D[1]==True:
12.         if V[0]==True:
13.             print("[ VACUUM CLEANER IS IN ROOM A ]")
14.             time.sleep(3)
15.             if D[0] and D[1]:
16.                 print("ROOM [A] : [ / _..._]")
17.                 print("ROOM [B] : [ _..._]")
18.             elif D[0]==True and D[1]==False:
19.                 print("ROOM [A] : [ / _..._]")
20.                 print("ROOM [B] : [ ____ ]")
21.             elif D[0]==False and D[1]==True:
22.                 print("ROOM [A] : [ / ____ ]")
23.                 print("ROOM [B] : [ _..._]")
24.
25.             if D[0]==True:
26.                 print("[DIRT FOUND IN ROOM A ]")
27.                 time.sleep(3)
28.                 print("[DIRT CLEANING.....]")
29.                 time.sleep(2)
30.                 print("[ROOM A CLEAR SUCCESSFULLY !]")
31.                 time.sleep(3)
32.                 D[0] = False
33.                 if D[1]==True:
34.                     print("ROOM [A] : [ ____ / ]")
35.                     print("ROOM [B] : [ _..._]")
36.                 else:
37.                     print("ROOM [A] : [ ____ / ]")
38.                     print("ROOM [B] : [ ____ ]")
39.                 print("[MOVING TO ROOM B]")
```

[illegible]

```

85.             V[1] = False
86.             V[0] = True
87.
88.     print("ALL ROOMS ARE CLEANED SUCCESSFULLY !]")
89.     print("ROOM [A] : [ / _____]")
90.     print("ROOM [B] : [ _____]")
91.
92. main()

```

2. Code Output

Run Code: [Click here to run on browser](#)

```

[ VACUUM CLEANER IS IN ROOM A ]
ROOM [A] : [ / _____]
ROOM [B] : [ _____]
[DIRT FOUND IN ROOM A ]
[DIRT CLEANING.....]
[ROOM A CLEAR SUCCESSFULLY !]
ROOM [A] : [ _____]
ROOM [B] : [ _____]
[MOVING TO ROOM B]
[ VACUUM CLEANER IS IN ROOM B ]
ROOM [A] : [ _____]
ROOM [B] : [ / _____]
[DIRT FOUND IN ROOM B ]
[DIRT CLEANING.....]
[ROOM B CLEAR SUCCESSFULLY !]
ROOM [A] : [ _____]
ROOM [B] : [ _____]
[MOVING TO ROOM A]
[ALL ROOMS ARE CLEANED SUCCESSFULLY !]
ROOM [A] : [ / _____]
ROOM [B] : [ _____]
PS F:\DP AI ML\Python-for-ML-AI>

```