Flowchart of Mini Project 1

The following flowchart indicates the algorithm of the game. As it is very big so I formulated a legend for messages to be printed.

Legend:

IM	Enter your choice (1-4)
M1	You are in room 'X' now
M2	Bye Bye!!! Have a good time!
S1	Congratulations! You have successfully guided Ali to the kitchen. Now he can eat Biryani.
S2	Congratulations! You have successfully guided Ali back to his bedroom. He has eaten his full and now he can peacefully go to sleep.
EM1	The door is locked.
EM2	Invalid choice. Enter a valid choice.

Start

current_room = 1
choice
flag_kitchen = 0
flag_bedroom = 0

1

Is flag_bedroom = 1?　　**Y**　　Print M2　　→　　End

N

Print IM
Read choice

Is current_room = 1?　　**Y**　　Is choice = 1?　　**N**　　Is choice = 2?　　**N**　　Is choice = 3?　　**N**　　Print EM2

N

Y　current_room = 3　　**Y**　current_room = 8　　**Y**　Print EM1　　1

Print M1　　　Print M1

1　　　　1　　　　1

Is current_room = 2?　　**Y**　　Is choice = 1?　　**N**　　Is choice = 2?　　**N**　　Is choice = 3?　　**N**　　Is choice = 4?　　**N**

N

Y　current_room = 1　　**Y**　current_room = 3　　**Y**　current_room = 6　　Print EM1　　Print EM2

Is flag_kitchen = 1?　　**N**　　Print M1　　Print M1　　1　　1

Y

Print S2　　Print M1

flag_bedroom = 1　　1

1

Is current_room = 3?　　**Y**

N

Is choice = 1?　　**N**　　Is choice = 2?　　**N**　　Is choice = 3?　　**N**　　Print EM2

Y　　　　**Y**　　　　**Y**

current_room = 6　　current_room = 2　　Print EM1　　1

Print M1　　Print M1

1　　　　1

Is current_room = 4?　　**Y**　　Is choice = 1?　　**N**　　Is choice = 2?　　**N**

N

2　　　current_room = 9　　**Y**　current_room = 5　　Print EM2

Y

Print S1　　Is flag_kitchen = 0?　　Print M1　　1

flag_kitchen = 1　　**N**　　1

Print M1

1

1

2

Is current_room = 5? — **Y** → Is choice = 1? — **N** → Is choice = 2? — **N** → Print EM2 → (1)

N

Is choice = 1? — **Y** → current_room =4 → Print M1 → (1)

Is choice = 2? — **Y** → current_room =6 → Print M1 → (1)

Is current_room = 6? — **Y** → Is choice = 1? — **N** → Is choice = 2? — **N** → Is choice = 3? — **N** → Print EM2 → (1)

N

Is choice = 1? — **Y** → current_room =5 → Print M1 → (1)

Is choice = 2? — **Y** → current_room =3 → Print M1 → (1)

Is choice = 3? — **Y** → current_room =2 → Print M1 → (1)

Is current_room = 7? — **Y** → Is choice = 1? — **N** → Print EM2 → (1)

N

current_room =2 → Print M1 → (1)

Is current_room = 8?   **Y**   Is choice = 1?   **N**   Is choice = 2?   **N**   Is choice = 3?   **N**

N   **Y**   **Y**   **Y**   Print EM2

current_room =5   current_room =7   current_room =1

Print M1   Print M1   Is flag_kitchen = 1?   **N**

1   1   1   **Y**   Print M1

Print S2

flag_bedroom =1   1

1

Is current_room = 9?   **Y**   Is choice = 1?   **N**   Print EM2

N   **Y**

current_room=4   1

1

Print EM1

1