10/11/2020

Tuesday

20CS5 PC AIP

Lab Test - 1

Artificial Intelligence

Writeup

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. UG - CSE

5th sem

A section

A¹ batch

Model based agent. Vaccum cleaner

```python
def print_floor (floor, row, col):
    print (" The floor is: ")
    for r in range ( len(floor):
        for c in range (len (floor [0]))
            if r == row and c == col:
                print (f" >{floor[r][c]}< ", end = " ")
            else
                print (f" {floor[r][c]} ", end = " ")
        print ()
    print ()
```

a]
```python
def clean ( position):
    moveLeft = moveRight = False
    if position.data == 'Left' :
        if position.status = 'clean' :
            moveRight = True
            print (" Moving Right")
        else
            print (" cleaning ")
            position.status = 'clean'

    else
        if position.status = 'clean' :
            moveLeft = True
            print (" Moving Right")
        else
            print (" cleaning .... ")
            position.status = 'clean'
```

b]

```
def  clean_2 (position) :
        position = [o o o]

            current_pos =  position.data
            last_pos = { }

        while True :
            if   position.data == 'Left'
                    if position.status = 'clean' :
                        move Right = True
                    else   print ("Cleaning....)
                        last_pos. append (position.data, status )


            else
                    if position.status = 'clean' :
                        move Left = True

                    else    print ('cleaning---')
                        position.status = 'clean'
                        last_pos.append (position.data ; status )
        if (last_pos [ position.data ] > 2)
                print ('Already cleaned')
                break
```