



lec 3 Q & A

**** Q1 what is the properties that we build agent depend on ?**

1. autonomy
2. reactive
3. pro-active
4. social ability

**** Q2 What is the meaning of Agent Architecture ?**

- General methodology to create modular decomposition for particular task .

**** Q3 what is the meaning of Agent ?**

- Computer system that able to take action independantly and autonomous .

**** Q4 What types of agent Architecture ?**

1. Symbolic : agent that use symbolic logic to understand the real world ENV and decide it's actions in the same way .
2. reactive : Agent more Flexible than Symbolic agent to deal with Env changes .

3. hybrid : contain the best of Symbolic and reactive .

**** Q5 how symbolic agent decide to perform action ?**

- symbolic agent use symbolic logical representation to decide best action to perform .

**** Q6 how can we easily get symbolic agent ? or how is the symbolic agent architecture like ?**

1. Agent contain symbolic representation for real world env.
2. agent make decision via symbolic reasoning .

**** Q7 problem with symbolic Agent ?**

1. Transduction problem : converting real world to symbolic description .
2. representing , reasoning problem : how to represent complex real world symbolically .

**** Q8 how Deductive agent decide what to do ?**

- Deductive agent use logic to encode theory to provide best action .

**** Q9 .. Explain first and second code section ?**

Deductive Reasoning Agents

```
/* try to find an action explicitly prescribed */
for each  $a \in Ac$  do
    if  $\Delta \otimes_{\rho} Do(a)$  then
        return  $a$ 
    end-if
end-for
/* try to find an action not excluded */
for each  $a \in Ac$  do
    if  $\Delta \otimes_{\rho} \neg Do(a)$  then
        return  $a$ 
    end-if
end-for
return null /* no action found */
```

3-11

1. First section :

- for each action in all agent possible actions .. try to get optimal action that explicitly provide agent theory .

2. second section :

- for each action between all agent possible actions , try to get not excluded action to be performed .

**** Q10 Logical approach provide a problem , explain it and show how can we solve ?**

- logical approach provide implies adding and remove thing from logical database , we can solve it via planning agent .

**** Q11 what is planning agent ?**

agent that use true logical deduction to solve the problem .

