Daffodil International University

Faculty of Science & Information Technology

Department of Software Engineering



Assignment

On

Midterm Question Solve

Course Code: SWE 424

Course Title: Artificial Intelligence

Submitted To:

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Level: 3 Term: 3

Section: B

Ann to the a no.1
Percept;
varciable & Lee valuer
loc UC, PC, CC
Ploc uc, pc, cc
ntatun S>T, S <t< th=""></t<>
The state of the s
Ann to the a no. 2
Action:
sande estillaçuel à vir su Milis vi milione
Varciable values
movement move-to-uc
moul-to-pc moul-to-cc
ntop
Ano to the a no.3
Envireonment fore this problem;
Obnerevable; Fully
Detereministic! Deterministic
Epinodic: Epinodic
Static: Static
Dincrate: Dincrate
Single Agent; Single

Ann to the a no.3

I will build simple reetlere agent with state to solve the preoblem.

Because in this case the gragest have to rememleve his past location, otherwise the agent will move to the same toop location every time. Fore example;

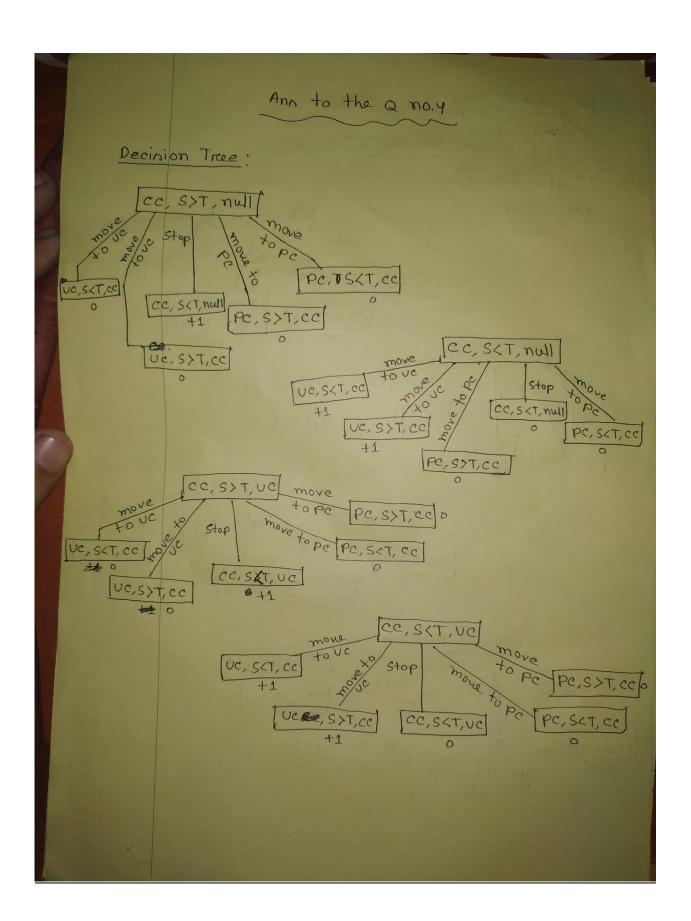
City -> uttorea -> City -> uttorea >---

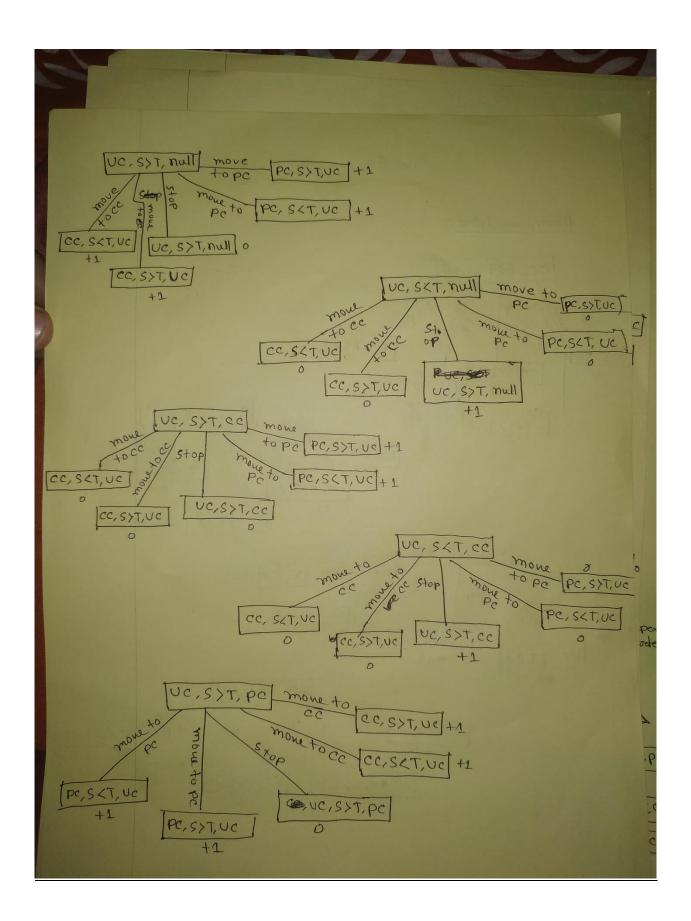
If the agent doesnot tollow riemembere his pravious location he will be in a loop like above situation.

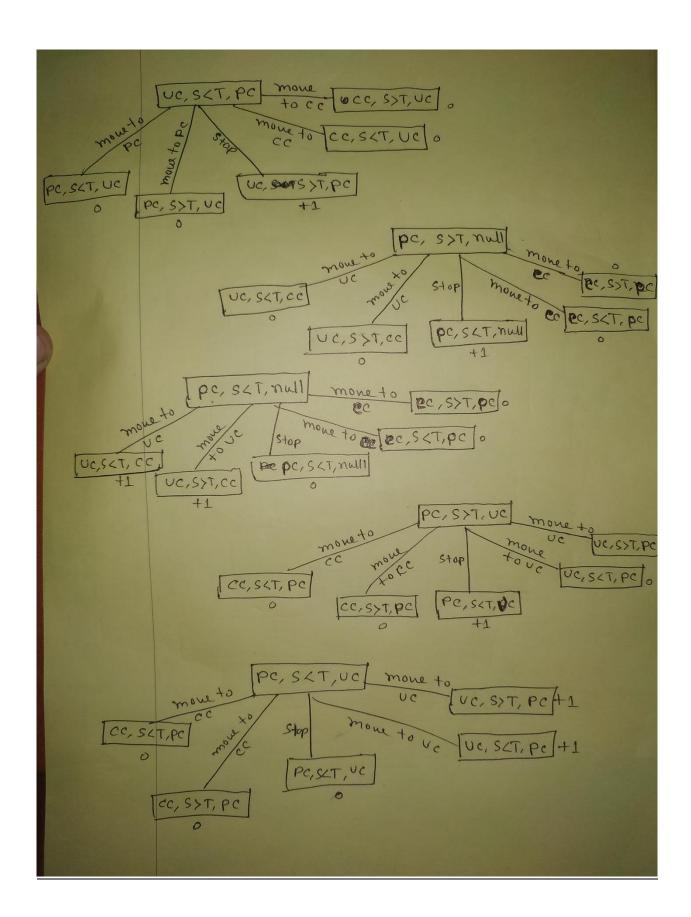
And what if the agent tollow simple reetless with state and reemembere preevious location then he can move like this:

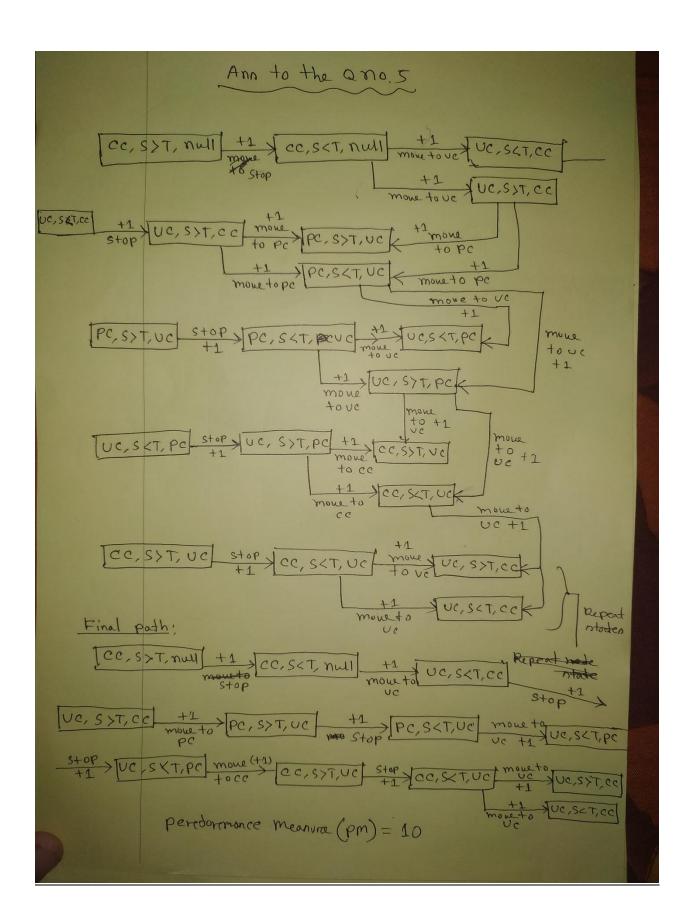
city -> uttarea -> peremanent -> uttarea -> city

So the So, in this case we have to follow simple
redlen agent with state sto solution.









Ann to the a no. 6

```
Agent Sunction
         Global variable! int P-10c == "null";
  Agent_Function (int loc, Atatun, p int Atatun, int ptoe) }
   if (10c == cc && ntatun == S>T && Plac == "null") {
        P-loc= # loc:
        recturen moneto & ntop; }
elm if (loc == cc ll ntatun == SKT && P_loc == "null"){
          P-loc= $ loc;
          reduren move to - vic; )
elne is (loc == cc && ntatun == S>T && Plac == UC) {
          P_100 = $ 100;
          returen ntop; }
elneit (loc == cc &b ntotun == SKT &b Ploc == UC) (
          Plac = I loc;
          recturen move-to-pessuc; )
else it (loc == UC && ntotun == S>T && P_loc == "null") of
          P-loc = + loc;
          reduren move-to-pe; }
elne if (loc == UC && ntatun == SKT && Ploc == null) }
          Ploc = moloc;
          returen ntop;
```

```
dneit (we loc == uc && ntodun == S>T && Ploc == ce) of
            P-loc == 100;
            recturen move-to-pe; >
elne if (loc==uc bf ntatun == SKT bb Ploc == cc) of
             P-loc == loc;
             recturen stop; }
eheit (loc== UC && ntatun == S>T && P_loc== PC) {
             P_100=100;
             returen move-to-pe; }
che it (loc == UC && ntatun == SKT && Ploc == PC)
              P-loc = loc;
              recturen stop; >
elne if (100== pc & & ntatun == 5>T & & Plac == "null")}
             P-100 = 100;
             recturen move stop; }
elne it (loc == pc && ntatun == SKT && Ploc == "null") {
             P-loc = loc;
             return move-to-uc;}
elne it (loc == PC && ntatun == S>T && Ploc == UC){
            P-loc = loc;
            returen moventop; }
elne if (100== PC && ntatun == SKT && Ploc == UC)
            Ploc = loc's
             recturen move-to-uc;}
       elne
recturen Invalid;
```