· Lutorial No 2

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Sub'- 15 LAB.

Tulonal 2: To understand. stake space. problem bornulation.

Afin'. To understand stale spall Based problem formulation of Al problem. Bu Pharpoblem solvery Agent con be applied.

Theory: They kint undertood the problem solving agent Algorithm Shown in Stg. & Shows agent Agent first formulate Goal G. problem, the eletermines or rather searchs on action sequentes after which it returns the mot aethor to be Executued. In sequential morner.

Defining the problem is referred to dy problem journalation it involus defining pollowing. Five things.

Things.

Things.

Things.

Things.

Things.

The State it is the storing state. High
the prober is in.

Action it define all pomby action available, to.

agent from it is in some that currently

It is a junction Action (of that returning the of all pomition action.

Ransition model abo mown as successor fine très,

Aunchon STIMPLIE-PROBLISM-SOLVING-AGIENT (Percept)

Detum an action.

Static acq. an action sequency Philhally Emply

State some description of the cumu.

world state.

Goal a Goal initially will!.

Goal a Goal initially will!.

State Uppatis - STATTE (State precept)

If seq is Empry then do.

Goal FORMULATIE - GOAL (State).

problem FORMULATIE - PROBLEM (State Goal)

Seq SEARCH (PROBLISM)

action PIRST (SEQ)

Velym. actio.

Problem Solving Agent Arreitun

which define which states bu cysus, fend to non 10 when a perficular action is Executed by the agent successive capple of transition model. Green with to what- is known as state. Spare.

Goal Pert This act as a stopping condition when the prode paned, to this function is goal state it will refun the a searching would stop.

Pan cop it is a accumulated corr of perfuming entain action seguent men consideration.

Thus a problem can formally specified.

by identifying initial state action hamperion model (successor functor) Goal test 4. path.

(off in term of problem cohein, agent sold. is the path form initial state to a Goal.

state optimal. sold is lower path cost of all solution process of pinding a soulation is caused search.

working! Band on undvistanding of probu. formulation student need to jornulate following proben They will dearly show there I space up to depth level 3 at 1944 year node when Ever is shallower. 1. Marigan to neck wormshop from hop IT Cabon with min. no. of molies, can be climbig evalling brough a confider tell right, 2. 4 Pussle problu 3. Ou missorprie a camabas problem. Phuse. ore me 8 instronares 4 3 countibals who must mon a stuer, uning a boat which can carry at more /2. people. and, constraint that Por Born Banks. If there are, missioner. prout or the Berli they canobley consibul. would som but withours the Koat cannot coon the viewer by itself with no propre on soard G. M. pieins pollen mange. Met queur on a on cross N chis, so word where no hoo guery attach ishere the Earnoln. (. Two room rencem dearn world 6. Water fing problem.

Resources Refer to second chapter from Antificial. Intelligery Amoun. Approay