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Date: 10/11/2020

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AI - Viva Clab Test - 1

- 1. What is At search algorithm?
- 2. What are different methods used to calculate distance approximation heuristically?
- 3. What is a heuristic function?
- 4. What are agents?
- 85. How an agent uses sensor function?

Answers: 6. Why IDS is better than others?

7. Where are A*, IDS implemented in real life?

Auswers .

- 1. At is a path search algorithm which determines destination the shortest path to a node by choosing the most promissing node next to traverse.

 P(x): h(x)+ g(x).
- 2. The methods are:

(i) Best First search. (A*)

(ii) Iterative deepening search or IDDFS.

- 3. A hearistic function is designed for solving problems quicker i.e it chooses approximate solutions that look most promising to solve problems quicker.
- 4. An agent is a being surrounded by an environment which senses it and acts upon it accordingly.

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- In real-life these sensors can sense, visual, audio, vibrations etc. with the help of devices such as cameras, microphones, SONAR etc. which act as the sensors for the agent.
- 6. IDS is better than other search methods since it combines BFS and DFS by limiting the depth.
- 7. A* and IDs can be implemented in real-life during navigation, flow problems etc.