Arianddh N.S (IEMI8CSOIS) Pin 10 11 date Viva (AI Lab test -1) (1) What is A* search algorithm? Different methods used to calculate distance approximation houristically? What is a houristic function? What are agents ? How does an agent use Benson function? Why IDS algorithm & better than Where are IOS, At implemented in real life? 1 A* is an 'informed search algorithm', meaning that it is formulated in terms of weighted graphs. It is used to find the path from a given node to snother, having smallest cost. (a) (i) A Manhattan distance (ii) Diagonal distance (iv) (5) A henristic function is one that ranks alternatives in search algorithms to find the best one

In AI, an agent is an entity
which is supposed to achieve some
goals in an environment, observing In AI, an agent uses perception
of the environment (with ecusor function) to make decisions about which actions to take in the future. IDS (Iterative Deepening Search) algorithm is better than other search algorithms because of its efficiency & fast search IDS & A* search algorithme are used in real life to calculate shortest distance in between two points on a map (ex:-Croogle Maps).