

26/10/2021

Subject: Artificial Intelligence

Tuesday

Name: Mudra M. Bagul

Rollno: C-4802

- Q.1) What is the role played by A* algorithm in Romanian Map?
- Q.2) What is restaurant problem?
- Q.3) How does A* algorithm finds the total cost between the cities?
- Q.1) A* algorithm help us to find the distance from the given states. It consists of no. of paths which can lead us to our goal state. While performing a* algorithm it gives us all possible paths that are available and help us to find the optimal path with minimum weights. It is used to find the distance between the cities by taking the value of both the cities.
- Q.2) Restaurant problem help us to select the best possible decision from the given data. Restaurant helps us to give the info. regarding the decisiontree model. It consist of no. of parameters such as waiting time, cost, reservation, patrons, quality, etc. Each parameters consist of diff. values which help us to get the best decission from the inputed data.
- Q.3) A* algorithm helps to find the distance between two states. It also helps to find the optimal solution for the given problem. A* algorithm takes the weightage of the node itself as well as the value of the path which it needs to travel.
$$f(n) = g(n) + h(n)$$
 i.e. it is the addition of the two values which help us to get the best optimal value.