**001305974\_HEMANTJAIN\_ASSIGNMENT\_3**

**Question: Two additional extensions to think about is how to model a ride from a to b and determine current location of vehicles.**

**Idea Description:**

For example consider we want to book a ride from Boston to Connecticut.

There are 4 stops in between the complete ride and will assign each stop with the percentage say: Boston-0%, Cambridge-20%, New York-40%, New Jersey-80%, Connecticut-99%

So, initially we will take the location of the rider and search for the nearby available taxi around him.

Then, assign that taxi to the rider.

We could use the progress bar from the Swing Controls to mark the progress of the ride according to the stop stations crossed by the taxi from Source to Destination, which could also help us to know the current location of the taxi as well the rider.

And at the end as soon as the car reaches the destination marking the progress bar to 99% we can conclude the rider has reach the destination and we can mark the availability status of the car to true again to search for the new rider for the given taxi.