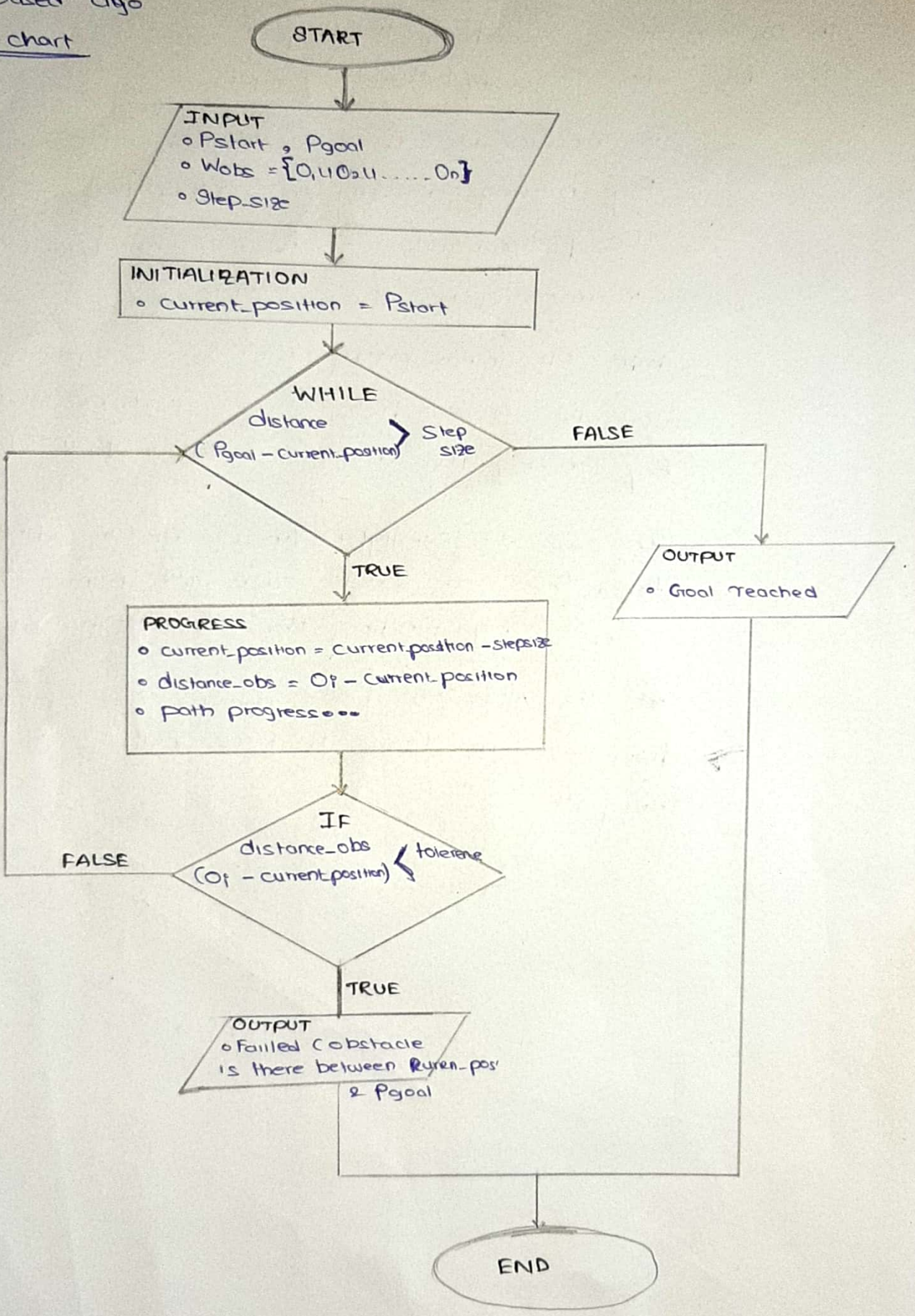
Assignment 01 - SC 627

2008011002

(i) Bug based algo

Flow chart



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(ii) From bug based algorithm, onee we find an obstacle in the path of reaching the goal, we can guide the bug to following below points.

- Circumnavigate the obstacle
  (By moving along the tangental vector of the polynomial at that point we can circumnavigate the obstacle.
- while circumnavigating we are going to calculate the distance to goal position
  (By Finding the distance between points)
  or
  (In case of straight lines we can directly find the at where we get minimum distance to goal by finding the distance)
- At that point where we obtain minimum distance we leave that obstacle & leave the path

In this way we change from bug base to bug, algorithm.

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